NOTES

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2. ALL CONSTRUCTION SHALL CONFORM TO CITY OF BUFFALO STANDARDS AND NEW YORK STATE CODE REQUIREMENTS, AS WELL AS THE LATEST A.I.S.C., A.C.I., AND A.S.T.M. STANDARDS. WHERE CODES OVERLAP, THE CONTRACTOR SHALL COMPLY WITH THE MORE STRINGENT CODE.
3. WHERE A SPECIFIC MANUFACTURER'S PRODUCT IS CALLED OUT ON THIS SHEET OR ANY OTHER PLAN IN THIS SET OF DRAWINGS, THE CONTRACTOR MUST COMPLY WITH THE MANUFACTURER'S LATEST PRINTED INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION.
4. THE CONTRACTOR SHALL MAINTAIN ACCESSIBLE PASSAGEWAYS FOR TRAFFIC AND PEDESTRIANS TO ADJACENT EXISTING RESIDENCES AND BUSINESSES WHICH WILL REMAIN IN OPERATION THROUGHOUT THE DURATION OF THE CONSTRUCTION.
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6. ALL CONCRETE CURBS, SIDEWALKS, APRONS, AND PADS SHALL BE CURED USING A PIGMENTED CURING COMPOUND CONFORMING TO A.S.T.M. C309.
7. ANY DEVIATION FROM ANY PLANS IN THIS DRAWING SET SHALL REQUIRE APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) AND THE CITY OF BUFFALO PLANNING AND BUILDING DEPARTMENTS, AS WELL AS THE APPROPRIATE UTILITY COMPANIES AND SERVICE PROVIDERS.
8. THE DESIGN ENGINEER (STUDIO T3) SHALL BE IMMEDIATELY CONTACTED UPON DISCOVERY OF ANY ABOVEGROUND OR BELOW GROUND OBJECTS NOT SHOWN ON THE BACKGROUND SURVEY THAT ARE UNCOVERED DURING EXCAVATION OR CONSTRUCTION (BUILDING FOUNDATIONS, BURIED VAULTS, TREES, SIDEWALKS, PAVEMENT, RAILINGS, SIGNS, STOCKPILES, STUMPS, OR SIMILAR) WHICH WILL INTERFERE OR CONFLICT WITH ANY PROPOSED WORK SHOWN ON THESE PLANS. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED OBJECTS ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.
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10. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK, THE COUNTY OF ERIE, AND THE CITY OF BUFFALO.

CODE & SITE DATA

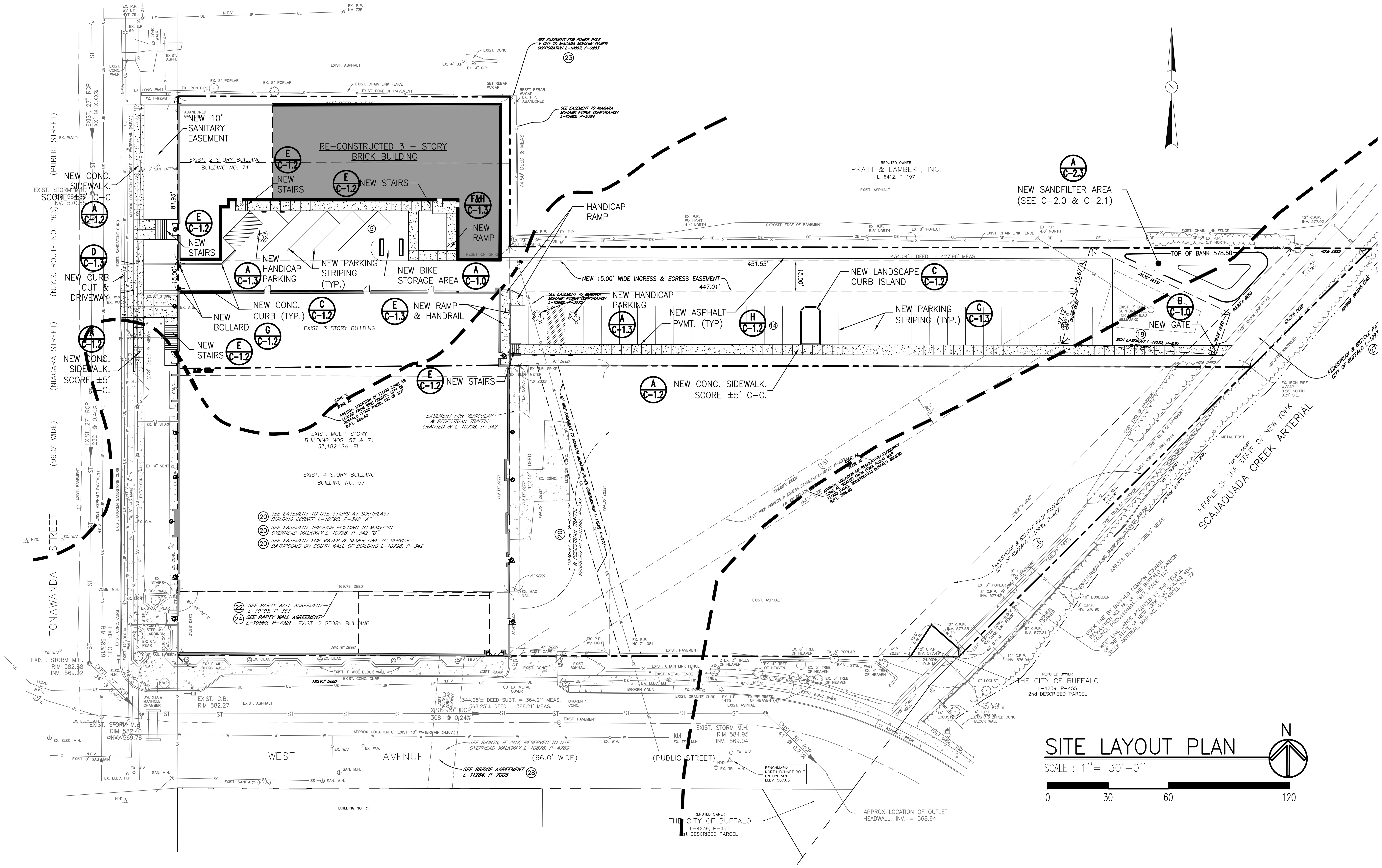
TOTAL PARCEL = 1.0 ACRES (±45,719 SQ. FT.)
SITE DISTURBANCE AREA = 0.81 ACRES (±35,109 SQ. FT.)
ZONED: N-1S (SECONDARY EMPLOYMENT CENTER)

	REQUIRED	PROVIDED
LANDSCAPE	1,286 SQ. FT.	1,295 SQ. FT.

BLDG. FOOTPRINT = ±9,079 SQ. FT.
TOTAL PARKING SPACES = 39 (INC. 3 HANDICAP)

LEGEND

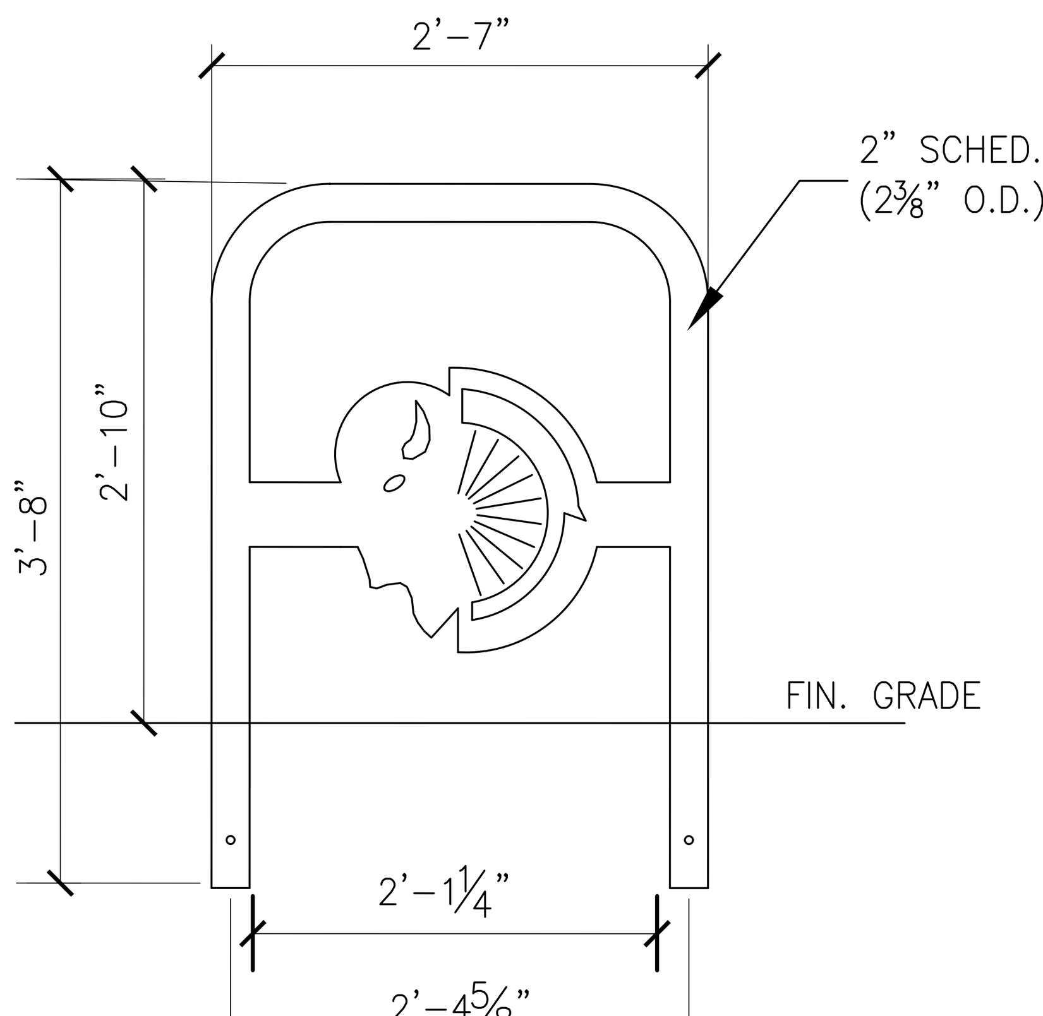
- EXISTING SIGN
- NEW SIGN
- EXISTING FENCE
- NEW FENCE
- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB (6")
- SITE PARCEL PROPERTY/R.O.W. LINE
- ADJACENT PROPERTY/R.O.W. LINES
- EXISTING UTILITY POLE
- EXISTING LIGHT FIXTURE
- NEW LIGHT FIXTURE
- (13) NEW PARKING SPACE COUNT
- EXISTING CONCRETE AREAS
- NEW CONCRETE AREAS



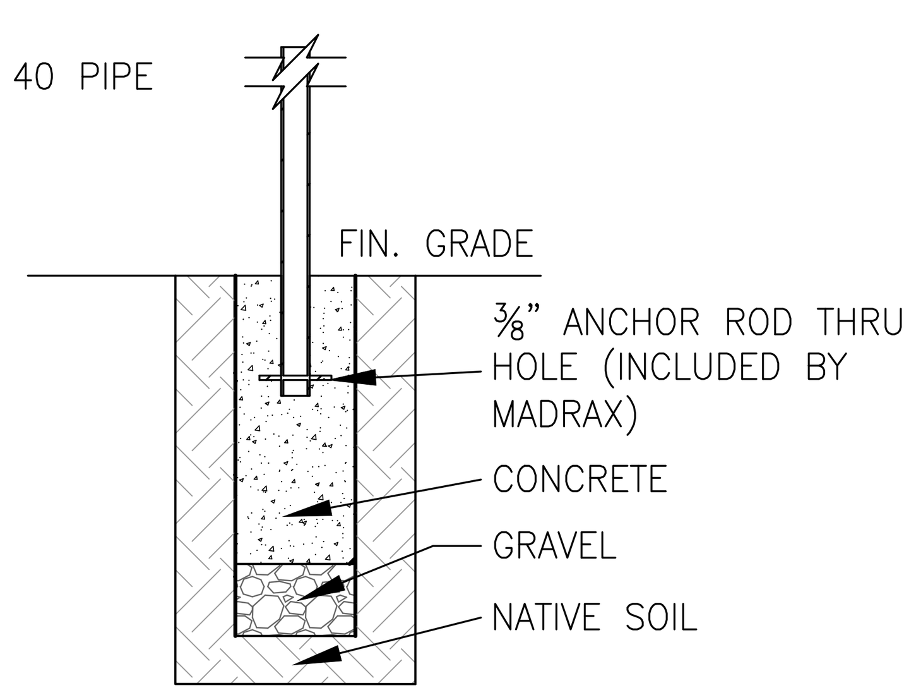
SITE LAYOUT PLAN

SCALE : 1"= 30'-0"

0 30 60 120

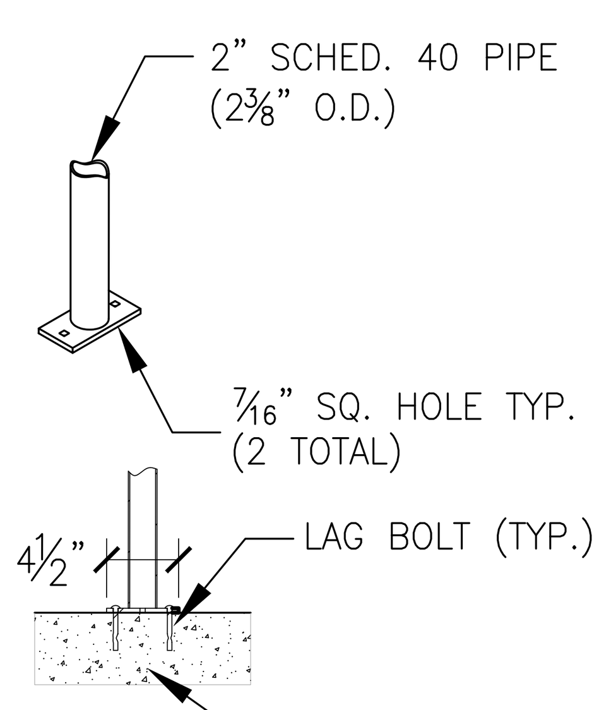


ELEVATION

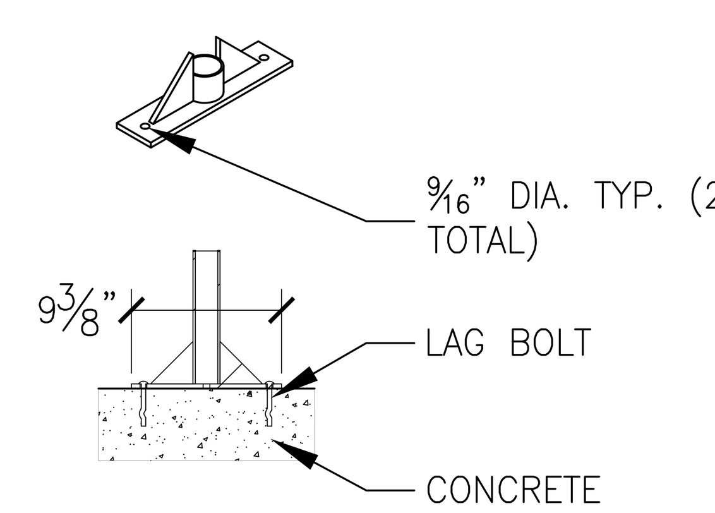


IN-GROUND MOUNT (IG) OPTION

ORDER BUFFALO STYLE BICYCLE RACKS FROM GOBIKE BUFFALO (716) 218-7161



SURFACE FLANGE MOUNT (SF) OPTION



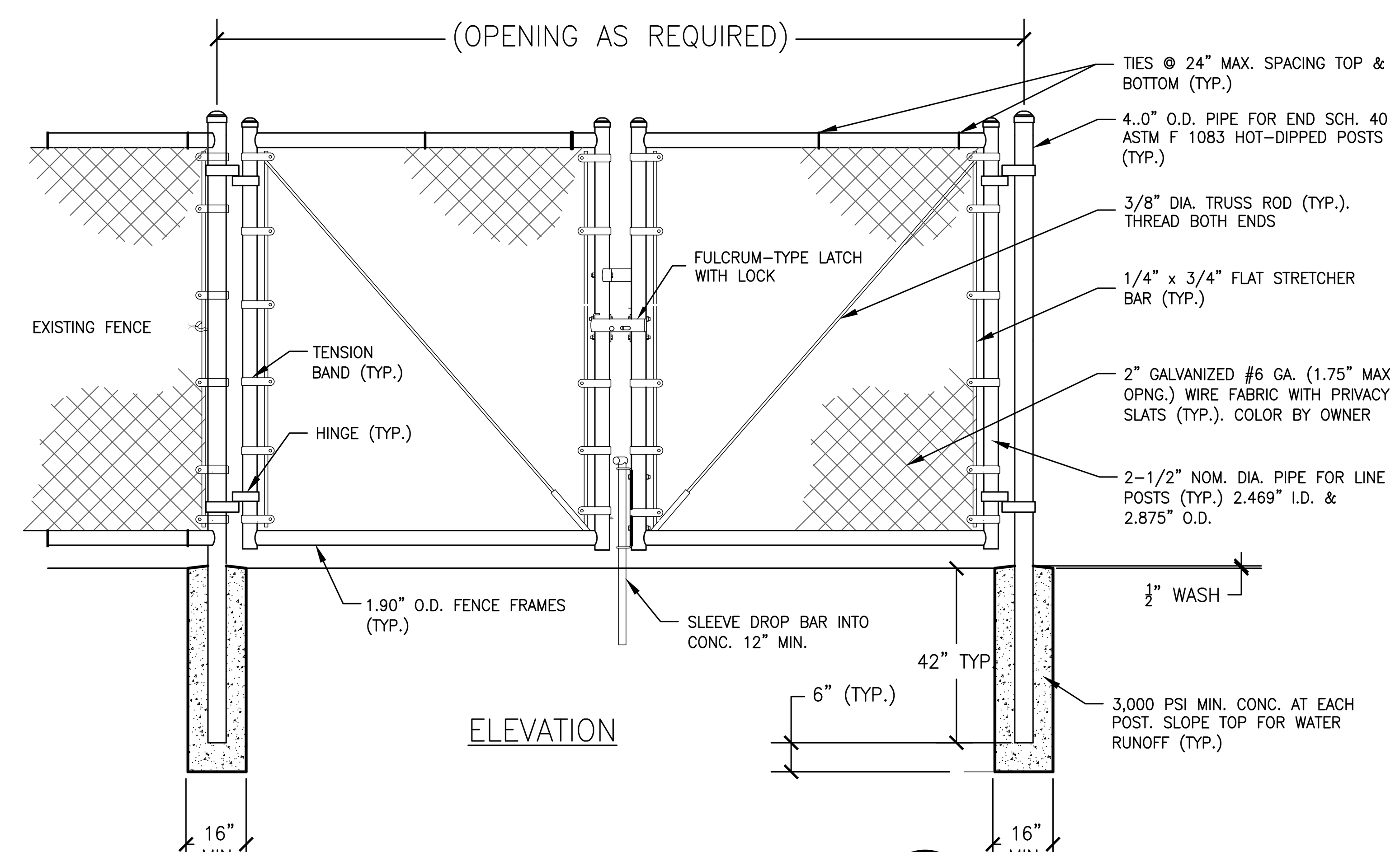
SURFACE GUSSET MOUNT (SG) OPTION

SECTION VIEWS

NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR(FINISH), SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

BICYCLE RACK DETAIL (A)

SCALE : NONE



ELEVATION

CHAIN LINK GATE DETAIL (B)

SCALE : N.T.S.

SUTTON architecture "Design2Build"

5409 Main Street (Second Floor)
Williamsville, NY 14221 (716)
932-7156 Fax 932-7873

Job Number: 18-461

Proposed Renovation For:

Fedder Lofts, LLC

57 Tonawanda Street
Buffalo, NY

No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

Title: SITE LAYOUT PLAN

Drawn By:	DAS	Sheet No.:
Date:	5-26-22	C-1.0
Checked:	AVT	
Scale:	AS NOTED	

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ZONED: N–1S (SECONDARY EMPLOYMENT CENTER)

	REQUIRED	PROVIDED
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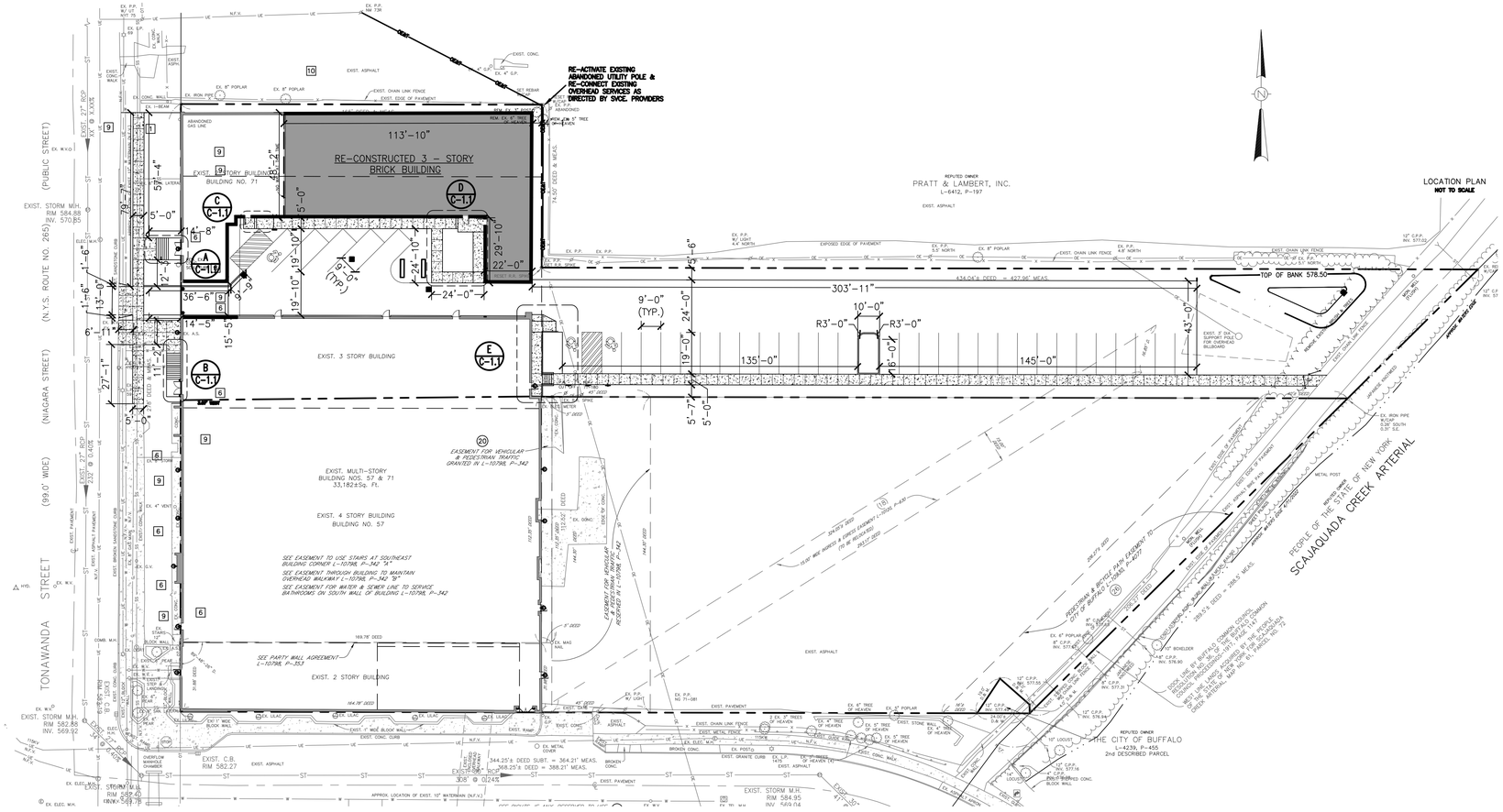
BLDG. FOOTPRINT = ±9079 SQ. FT.

LEGEND

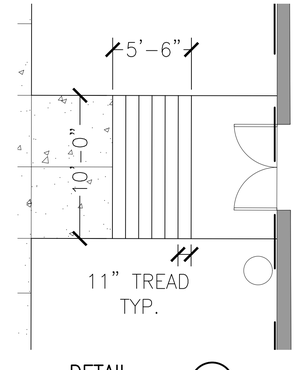
- EXISTING SIGN
- NEW SIGN
- EXISTING FENCE
- NEW FENCE
- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB (6")
- SITE PARCEL PROPERTY/R.O.W. LINE
- ADJACENT PROPERTY/R.O.W. LINES
- EXISTING UTILITY POLE
- EXISTING LIGHT FIXTURE
- NEW LIGHT FIXTURE
- EXISTING CONCRETE AREAS
- NEW CONCRETE AREAS
- NEW RESURFACED PAVEMENT AREAS



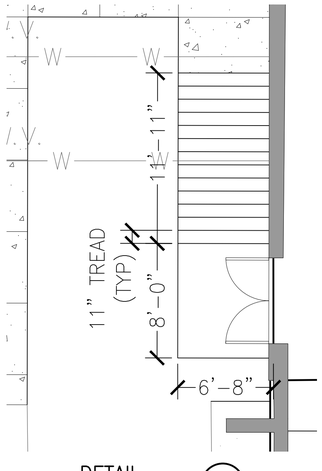
DIMENSIONAL SITE PLAN

SCALE : 1" = 30'–0"

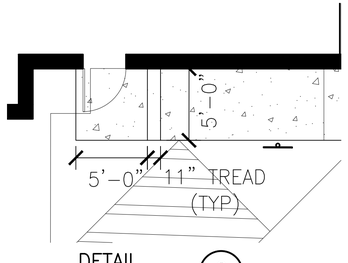
0 30 60 120



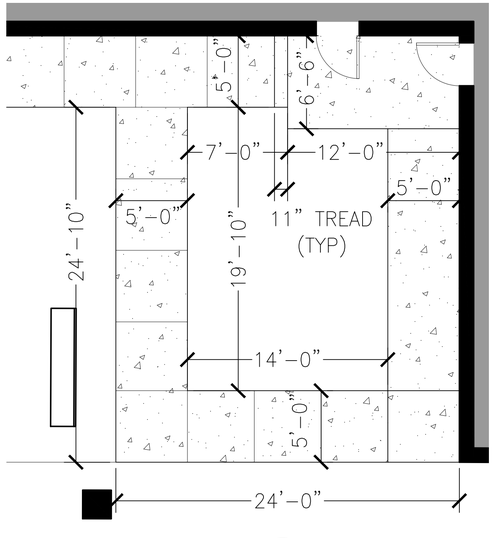
DETAIL A
SCALE : NONE



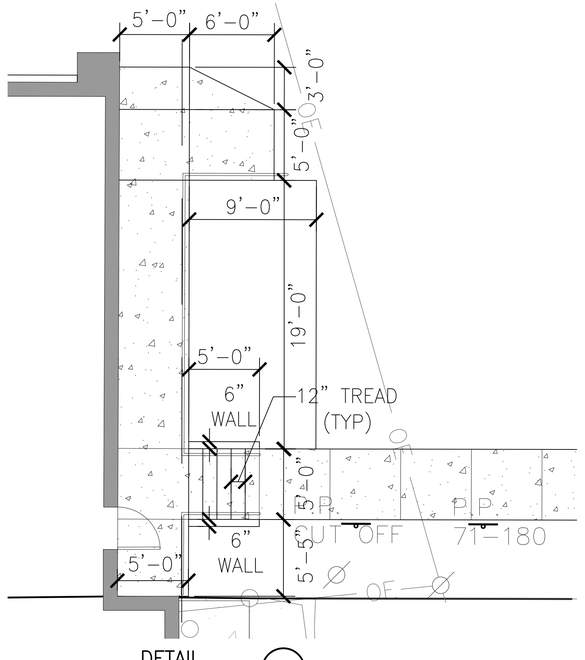
DETAIL B
SCALE : NONE



DETAIL C
SCALE : NONE



DETAIL D
SCALE : NONE



DETAIL E
SCALE : NONE

STATE OF NEW YORK ANDREW V. TERRANOVA 080634 LICENSED PROFESSIONAL ENGINEER

SUTTON architecture "Design2Build"

5409 Main Street (Second Floor)
Williamsville, NY 14221 (716)
932–7156 Fax 932–7873

Job Number: 18–461

Proposed Renovation For:

Fedder Lofts, LLC

57 Tonawanda Street
Buffalo, NY

No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

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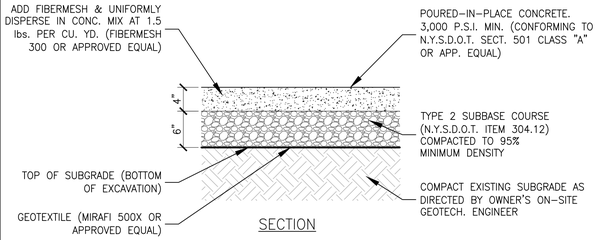
Title: DIMENSIONAL SITE PLAN

Drawn By: DAS
Date: 5–26–22
Checked: AVT
Scale: AS NOTED
Sheet No.: C–1.1



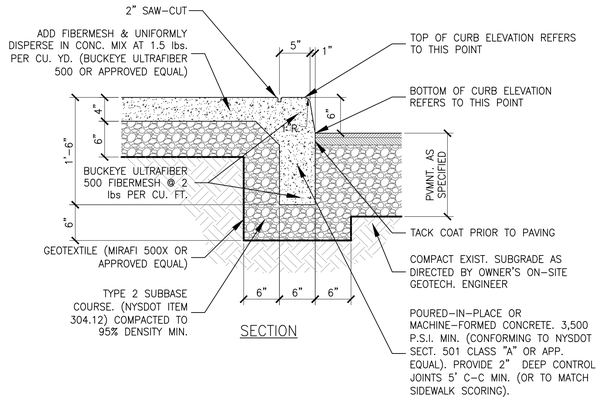
SECTION

SIDEWALK / CONCRETE PAD DETAIL (A)

SCALE : 1" = 1'-0"

NOTES:

1. ALL CONCRETE FOR SIDEWALKS SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 501. CONSTRUCTION SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 608-3.
2. ALL CONCRETE AREAS SHALL BE SCORED 5' ON CENTER (OR AS NOTED ON SHEET C-1.1) WITH SAW-CUT CONTROL JOINTS 1-½ INCHES DEEP. ALL SCORED JOINTS SHALL BE SAW-CUT WITHIN 24 HOURS OF POURING CONCRETE
3. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND AT INTERFACES BETWEEN DRIVEWAYS, SIDEWALKS, SLABS, AND FOUNDATIONS. ALL SIDEWALK EDGES SHALL BE TOOLED WITH A ½-INCH EDGE RADIUS WITHIN 24 HOURS OF POURING CONCRETE. INSTALL FELT BOARD EXPANSION JOINT. SCORE FELT AND REMOVE TO DEPTH OF ½" BELOW SLAB. PROVIDE SEAL WITH ½" INCH PRE-MOLDED RESILIENT JOINT FILLER AT ALL EXPANSION JOINTS.
4. PROVIDE DOWELS @ 12" C-C INTO FOUNDATION WHERE SIDEWALK ABUTS BUILDING WALLS AT DOOR ENTRANCES ONLY TO PREVENT FROST HEAVING. AT OTHER AREAS WHERE SIDEWALK ABUTS BUILDING WALLS PROVIDE ½" PRE-MOLDED EXPANSION JOINT WITH BACKER ROD AND SEALANT.
5. IN DRIVEWAY AREAS CONCRETE THICKNESS SHALL BE INCREASED TO 6 INCHES MINIMUM. IN DRIVEWAY AREAS CONCRETE SUBBASE SHALL BE INCREASED TO 9 INCHES MINIMUM OR TO THE DEPTH OF THE ADJACENT ASPHALT SUBBASE.
6. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.



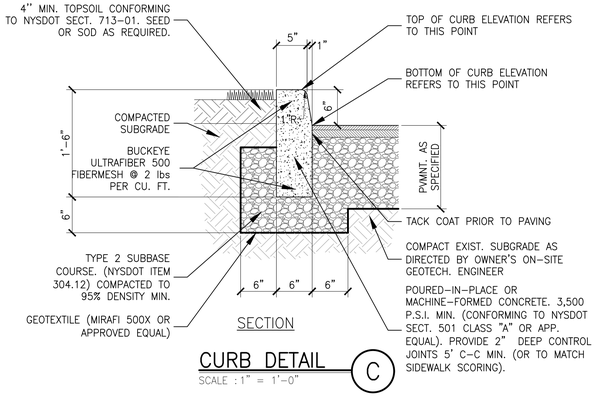
SECTION

INTEGRAL CURB-WALK DETAIL (B)

SCALE : 1" = 1'-0"

NOTE:

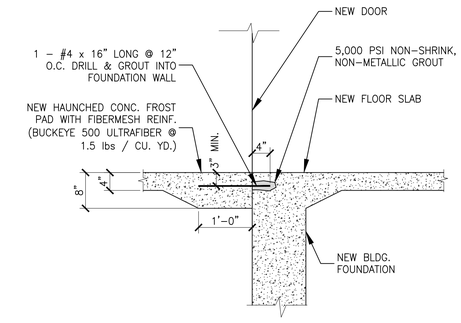
1. PROVIDE DOWELS @ 12" C-C INTO FOUNDATION WHERE SIDEWALK ABUTS AGAINST BUILDING WALL (AT DOOR ENTRANCES ONLY) TO PREVENT FROST HEAVING. AT OTHER AREAS WHERE SIDEWALK ABUTS AGAINST BUILDING WALL PROVIDE ½" PRE-MOLDED EXPANSION JOINT WITH BACKER ROD AND SEALANT.
2. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.



SECTION

CURB DETAIL (C)

SCALE : 1" = 1'-0"



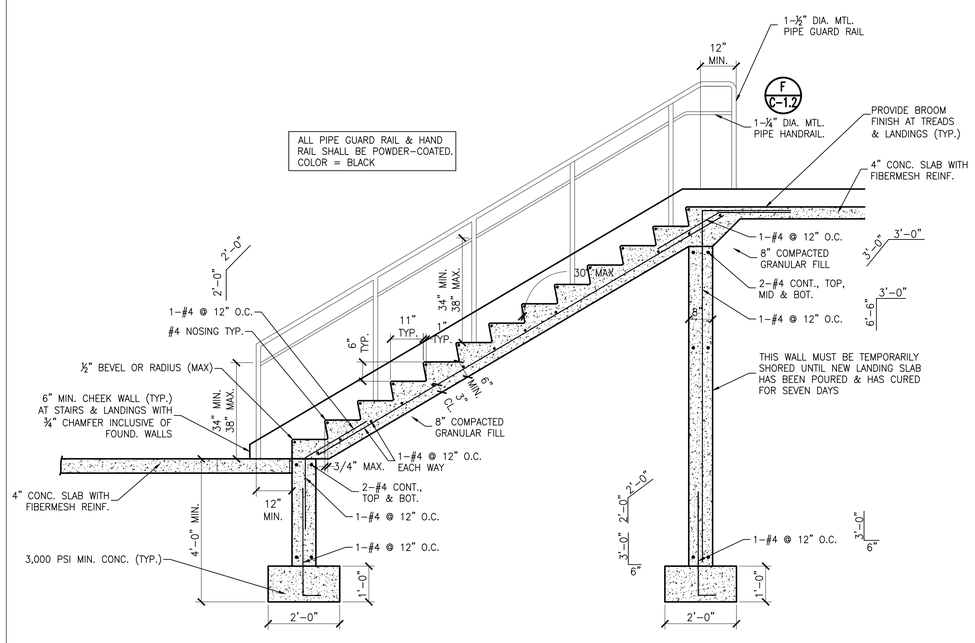
SECTION

SIDEWALK ABUTTING FOUNDATION AT DOORS (D)

SCALE 3/4" = 1'-0"

NOTES:

1. PROVIDE DOWELS @ 12" C-C INTO FOUNDATION WHERE SIDEWALK ABUTS AGAINST BUILDING WALL (AT DOOR ENTRANCES ONLY) TO PREVENT FROST HEAVING. AT OTHER AREAS WHERE SIDEWALK ABUTS AGAINST BUILDING WALL PROVIDE ½" PRE-MOLDED EXPANSION JOINT WITH BACKER ROD AND SEALANT.



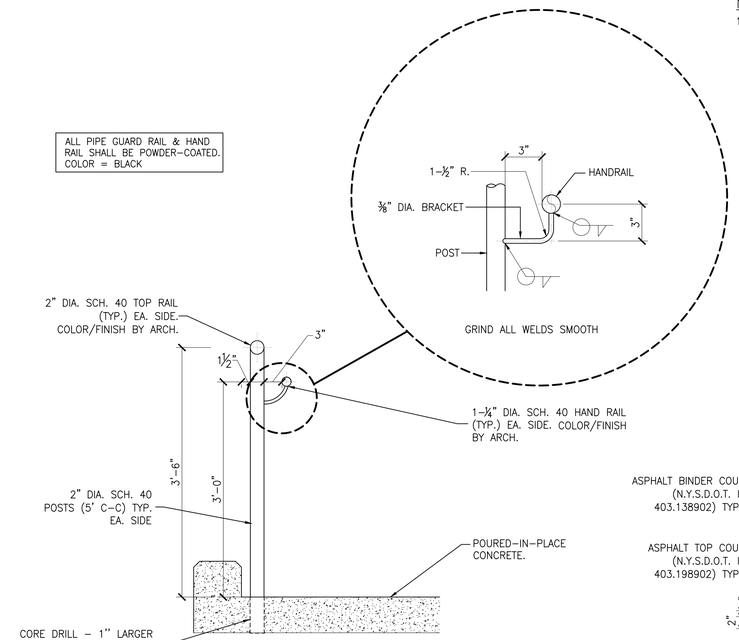
PROFILE

STAIR DETAIL (E)

SCALE :1/2" = 1'-0"

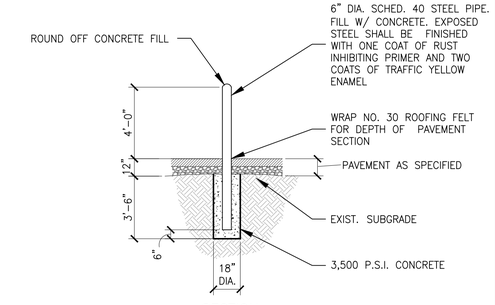
CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.

NOTE: REFER TO SITE LAYOUT PLAN FOR # OF RISERS & TREADS & LENGTH OF CONC. CHEEK WALLS



STAIR RAIL SECTION (F)

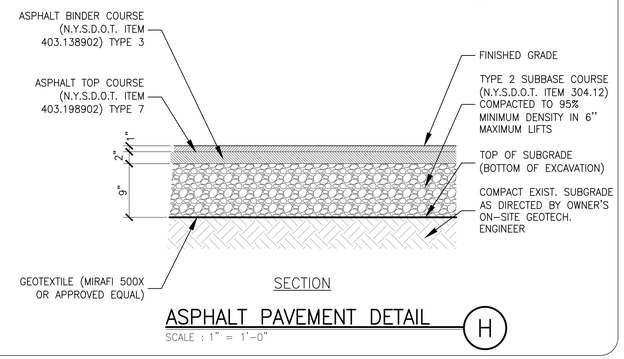
SCALE : 1" = 1'-0"



SECTION

BOLLARD DETAIL (G)

SCALE :1/4" = 1'-0"



SECTION

ASPHALT PAVEMENT DETAIL (H)

SCALE : 1" = 1'-0"

SUTTON architecture
"Design2Build"

5409 Main Street (Second Floor)
Williamsville, NY 14221 (716)
932-7156 Fax 932-7873

Job Number: 18-461

Proposed Renovation For:

Fedder Lofts, LLC

57 Tonawanda Street
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No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

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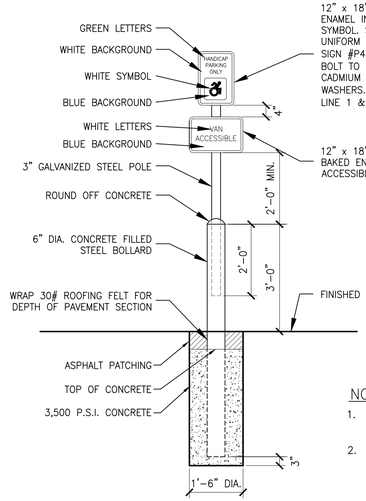
Title: SITE DETAILS

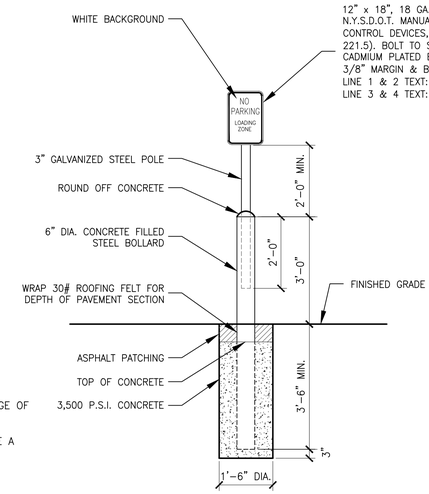
Drawn By:	Sheet No.:
DAS	C-1.2
Date: 5-26-22	
Checked: AVT	
Scale: AS NOTED	



HANDICAP SECTION

NOTES:

1. SIGNS SHALL BE PLACE 2' MIN. OFFSET FROM EDGE OF PAVEMENT.
2. CHARACTERS AND SIGN BACKGROUNDS SHALL HAVE A MATTE OR OTHER NON-GLARE FINISH.

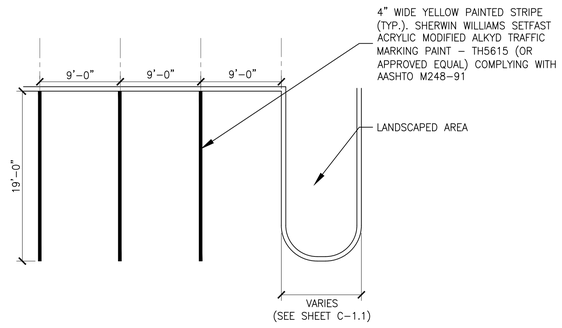


STRIPED AREA SECTION

HANDICAP PARKING SIGNS — B

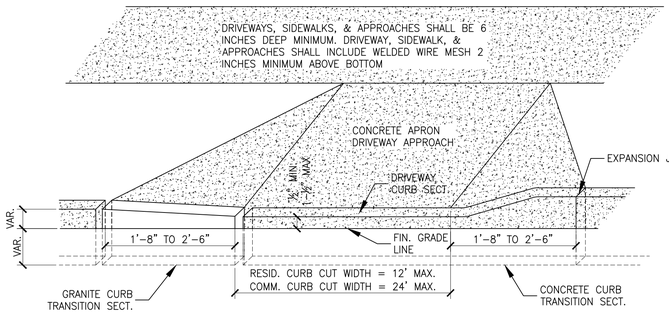
SCALE : 1/2" = 1'-0"

NOTE: REFER TO CABO/ANSI A117.1 - 1992 SEC. 4.28 FIG. B 4.28.8.1



90° PARKING STRIPE LAYOUT DETAIL — C

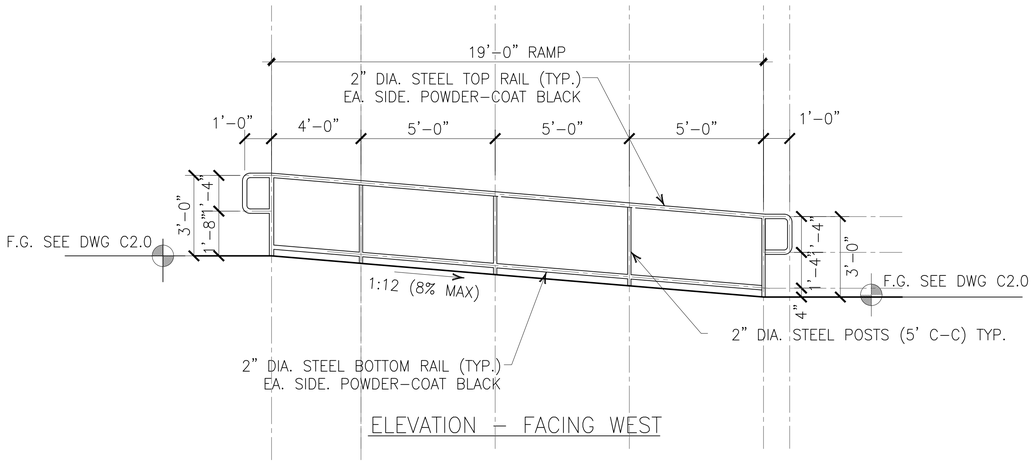
SCALE : 1/8" = 1'-0"



CURB DRIVEWAY TRANSITION & APRON — D

SCALE : N.T.S.

THIS DETAIL IS FURNISHED BY THE CITY OF BUFFALO DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING.

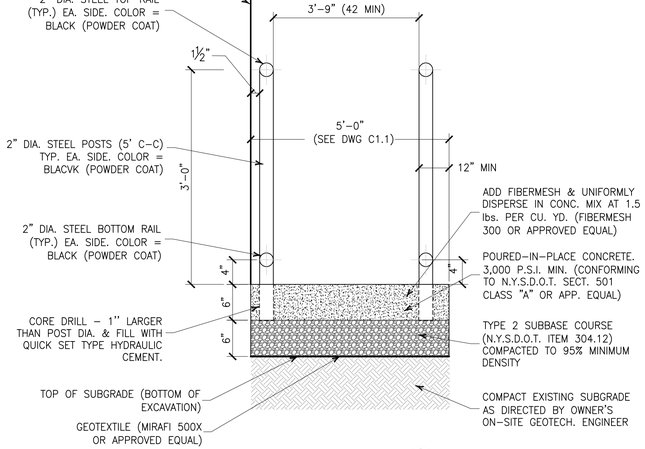


ELEVATION - FACING WEST

RAMP HAND RAIL DETAIL — E

SCALE : 1/4" = 1'-0"

REFER TO CABO/ANSI A117.1 - 1992 SEC. 4.7



RAMP SECTION — F

SCALE : 1" = 1'-0"

NOTES:

1. ALL CONCRETE FOR SIDEWALKS SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 501. CONSTRUCTION SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 608-3.
2. ALL CONCRETE AREAS SHALL BE SCORED 5' (OR AS NOTED ON SHEET C-1.1) ON CENTER WITH TOOLED TRANSVERSE CONTROL JOINTS 1-1/2 INCHES DEEP.
3. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND AT INTERFACES BETWEEN RAMP AND ADJACENT SLABS OR WALL FOUNDATIONS. ALL SIDEWALK EDGES SHALL BE TOOLED AND SHALL HAVE A 1/4-INCH EDGE RADIUS.
4. INSTALL 1/2 INCH PRE-MOLDED RESILIENT JOINT FILLER AT ALL EXPANSION JOINTS.
5. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.

STATE OF NEW YORK
ANDREW V. TERRANOVA
LICENSED PROFESSIONAL ENGINEER
080634

SUTTON architecture
"Design2Build"

5409 Main Street (Second Floor)
Williamsville, NY 14221 (716)
932-7156 Fax 932-7873

Job Number:
18-461

Proposed Renovation For:

Fedder Lofts, LLC

57 Tonawanda Street
Buffalo, NY

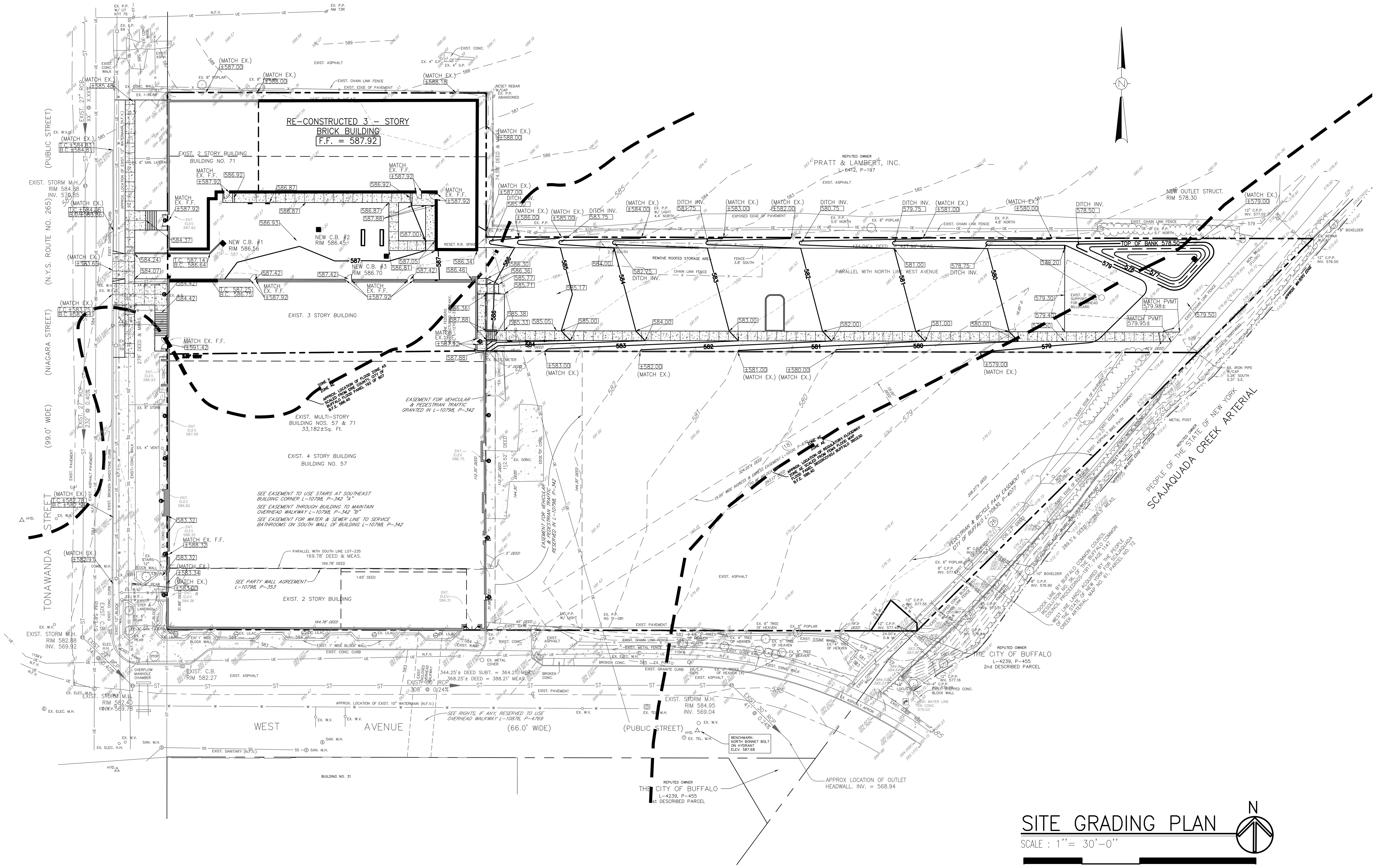
No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

Title:
SITE DETAILS

Drawn By: DAS	Sheet No.: C-1.3
Date: 5-26-22	
Checked: AVT	
Scale: AS NOTED	

NOTES

1. FOR REFERENCE INFORMATION SEE TOPOGRAPHIC & BOUNDARY SURVEY PREPARED BY MCINTOSH & MCINTOSH, P.C. INCLUDED WITH THIS SET OF SITE PLANS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITY LOCATIONS AND DEPTHS PRIOR TO THE START OF EXCAVATION AND CONSTRUCTION.
3. ALL SOIL FILL AREAS SHALL BE PLACED IN 8" MAXIMUM LIFTS. FILL SHALL NOT BE PLACED ON FROZEN SOIL.
4. ALL FILL AREAS BENEATH PAVED AREAS SHALL BE COMPACTED TO A MINIMUM 95% DENSITY IN 6" MAXIMUM LIFTS AS DETERMINED PER ASTM D 1557.
5. BEFORE CONSTRUCTION BEGINS, A CERTIFIED LICENSED GEOTECHNICAL ENGINEER SHOULD CONDUCT A FOUNDATION AND SOIL INVESTIGATION IN CONFORMANCE WITH SECTIONS 1802.2 THOUGH 1802.6 OF THE NEW YORK STATE BUILDING CODES. ALL CONSTRUCTION, FILL, AND SITE PREPARATION SHALL MEET OR EXCEED ALL SPECIFICATIONS AND RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT.
6. FUTURE LAWN AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL AND SEED.
7. PER NYSDEC REQUIREMENTS, IN EXISTING PAVED OR BUILDING AREAS THAT WILL BE CONVERTED TO FUTURE LAWN OR LANDSCAPED AREAS FULL SOIL RESTORATION TECHNIQUES SHALL BE APPLIED PRIOR TO SEEDING OR LANDSCAPING. DURING PERIODS OF RELATIVELY LOW SUBSOIL MOISTURE THE DISTURBED SUBGRADE SOIL SHALL BE SCARIFIED. COMPOST SHALL THEN BE TILLED INTO THE SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A RIPPER, TRACTOR-MOUNTED DISC, OR TILLER. UPLIFTED STONE OR ROCK MATERIALS SHALL BE REMOVED FROM THE AREA IF THEY ARE 4 INCHES OR LARGER. A 6 INCH MINIMUM LAYER OF TOPSOIL SHALL THEN BE APPLIED TO BRING SURFACE TO FINISHED GRADE AND SEEDING OR VEGETATION COMPLETED PER THE SITE LANDSCAPE PLAN AND DETAILS.
8. TILLING SHALL NOT BE PERFORMED WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN OR OVER EXISTING UNDERGROUND UTILITIES LESS THAN 24 INCHES BELOW GRADE.
9. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK.
10. ALL EXISTING FINISHED FLOOR ELEVATIONS SHALL BE FIELD VERIFIED BEFORE THE START OF EXCAVATION AND CONSTRUCTION. THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DIFFERENCES BETWEEN FIELD CONDITIONS AND THE GRADES SHOWN ON THIS SHEET.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT CITY OF BUFFALO BUILDING DEPARTMENT (716-851-4949) FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.



SITE GRADING PLAN

SCALE : 1"= 30'-0"

0 30 60 120

LEGEND

- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB
- SITE PARCEL R.O.W. / PROPERTY LINE
- ADJACENT PARCEL R.O.W. / PROPERTY LINE
- RIDGE OR GRADE BREAK LINE
- ∅ EXISTING UTILITY POLE
- 2.0% SURFACE FLOW DIRECTION & SLOPE
- NEW CATCH BASIN
- EXISTING MANHOLE
- NEW MANHOLE
- ### EXISTING CONTOUR LINE
- ###.## EXISTING SPOT ELEVATION
- T.C. XXX.XX TOP OF CURB ELEVATION
- B.C. XXX.XX BOTTOM OF CURB ELEVATION
- T.W. XXX.XX TOP OF RETAINING WALL ELEVATION
- B.W. XXX.XX BOTTOM OF RETAINING WALL ELEVATION
- XXX.XX NEW SPOT ELEVATION

ANDREW V. TERRAGNO — STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 080634

SUTTON architecture
"Design2Build"

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Williamsville, NY 14221 (716) 932-7156 Fax 932-7873

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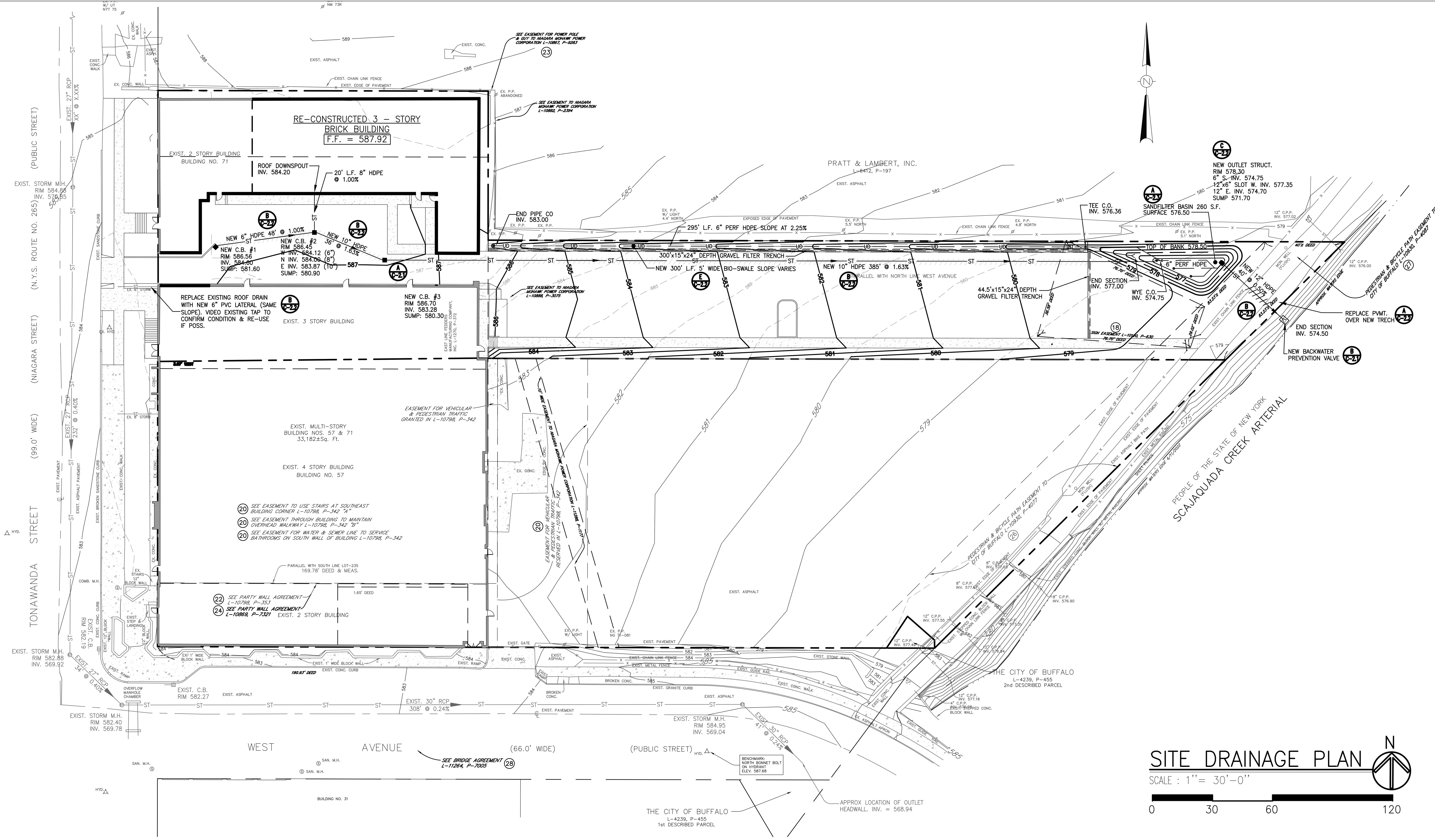
Drawn By: DAS
Date: 5-26-22
Checked: AVT
Scale: AS NOTED
Sheet No.: C-2.0

NOTES

1. FOR REFERENCE INFORMATION SEE TOPOGRAPHIC & BOUNDARY SURVEY PREPARED BY MCINTOSH & MCINTOSH, P.C. INCLUDED WITH THIS SET OF SITE PLANS.
2. FOR REFERENCE ALSO SEE ARCHITECTURAL AND PLUMBING PLANS FOR EXACT LOCATIONS AND DEPTHS OF ROOF DRAIN LEADER CONNECTIONS AT BUILDING WALLS.
3. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR STORM SEWER SYSTEM FAILURE DUE TO LACK OF INSPECTIONS OR MAINTENANCE.
4. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THE SURVEY OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION. THE DESIGN ENGINEER AND THE RESPECTIVE UTILITY COMPANIES SHALL BE IMMEDIATELY NOTIFIED BY THE INSTALLATION CONTRACTOR UPON DISCOVERY OF ANY SUCH ABOVEGROUND OR UNDERGROUND UTILITIES NOT SHOWN ON THE SURVEY. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED UTILITIES ARE IDENTIFIED AND THE DESIGN ENGINEER ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.
5. THE DESIGN ENGINEER SHALL BE IMMEDIATELY CONTACTED UPON DISCOVERY OF ANY ABOVEGROUND OR BELOW GROUND OBJECTS NOT SHOWN ON THE BACKGROUND SURVEY THAT ARE UNCOVERED DURING EXCAVATION OR CONSTRUCTION (BUILDING FOUNDATIONS, BURIED VAULTS, TREES, SIDEWALKS, PAVEMENT, RAILINGS, SIGNS, STOCKPILES, STUMPS, OR SIMILAR) WHICH WILL INTERFERE OR CONFLICT WITH ANY PROPOSED WORK SHOWN ON THESE PLANS. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED OBJECTS ARE IDENTIFIED AND THE DESIGN ENGINEER ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.
6. ALL NEW ROOF DRAIN LATERALS SHALL BE PVC SDR-35 CONFORMING TO ASTM D 2665, ASTM D 3034, ASTM F 891, CSA-B182.2, OR CAN/CSA-B182.4.
7. ALL STORM PIPE FITTINGS SHALL CONFORM TO ASTM D 2609, ASTM D 2464, ASTM D 2466, ASTM D 2467, CAN/CSA-B137.2, OR ASTM D 2665.
8. THE CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTS AS REQUIRED BY THE LOCAL PLUMBING AND BUILDING DEPARTMENT, AS WELL AS TESTS REQUIRED IN THE NYS PLUMBING CODE SECTIONS 312.2 THRU 312.9.
9. ALL JOINTS OR JOINT SYSTEMS FOR NEW STORM SEWERS SHALL BE SILT TIGHT, AND SHALL RESIST INFILTRATION OF SOIL PARTICLES THAT PASS THE NO. 200 SIEVE. IF GEOTEXTILE WRAP IS SPECIFIED FOR USE IN JOINTS, IT SHALL MEET AASHTO M288, WITH AN APPARENT OPENING SIZE (AOS) GREATER THAN 70.
10. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT CITY OF BUFFALO BUILDING DEPARTMENT (716-851-4949) FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.

LEGEND

- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB (6")
- SITE PARCEL R.O.W. / PROPERTY LINE
- ADJACENT PARCEL R.O.W. / PROPERTY LINE
- –ST ——— ST– EXISTING STORM SEWER
- –ST ——— ST– NEW STORM SEWER
- –UD– – – – – – – –UD– NEW PERF. UNDERDDRAIN
- ∅ EXISTING UTILITY POLE
- ——► PROPOSED SURFACE FLOW DIRECTION
- ■ NEW CATCH BASIN
- ○ EXISTING MANHOLE
- ● NEW MANHOLE
- ### ——— ### EXISTING CONTOUR LINE (TO REMAIN)
- ### ——— ### FORMER CONTOUR LINE (RE-GRADED)
- ### ——— ### NEW CONTOUR LINE (FINISHED GRADE)

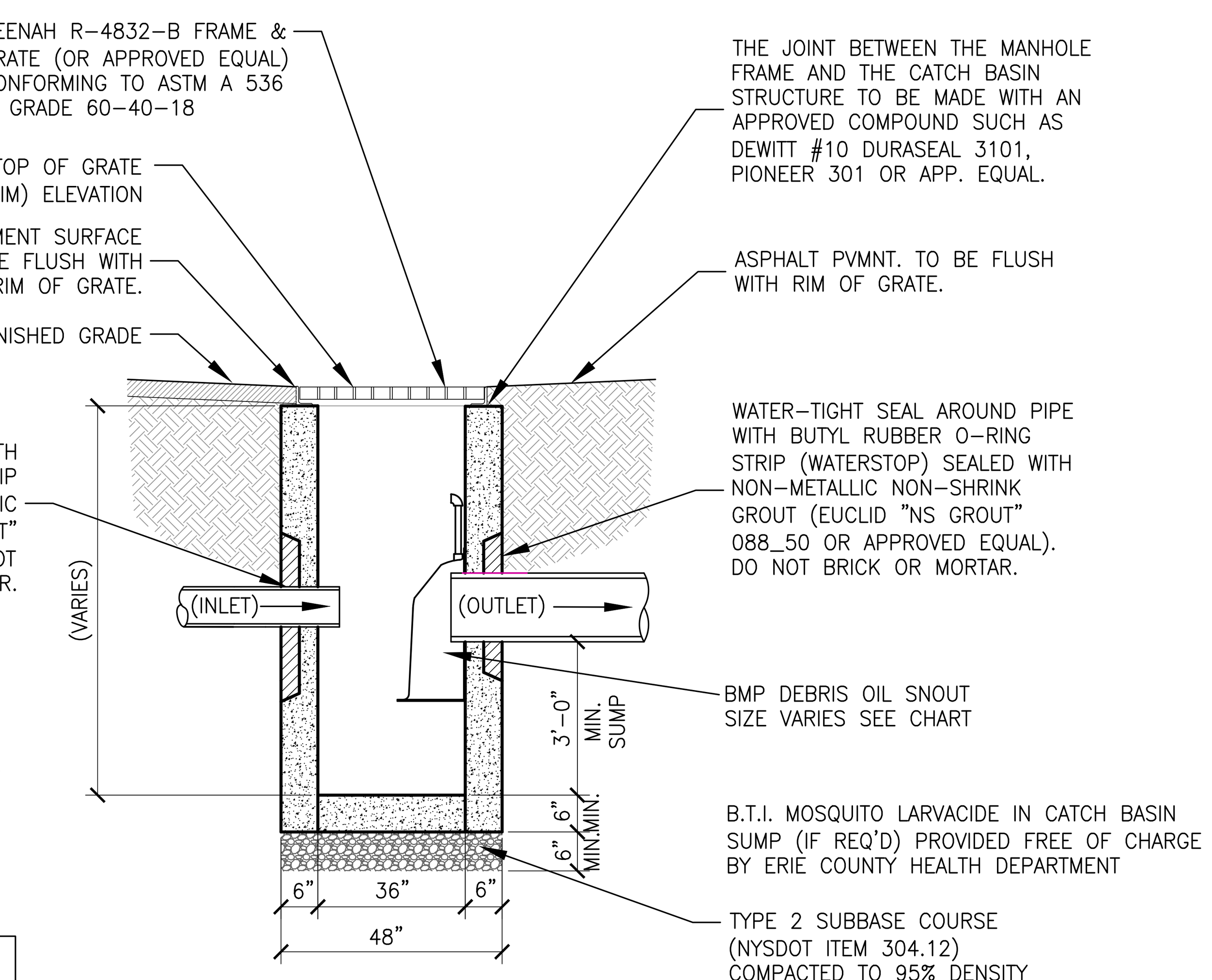


SITE DRAINAGE PLAN

SCALE : 1"= 30'-0"

0 30 60 120

BMP SNOUT SIZING CRITERIA	
STORM SEWER PIPE SIZE	BMP SNOUT SIZE
UP TO 10" DIA.	USE 12F
12" TO 15'' DIA.	USE 18F
15'' TO 18" DIA.	USE 24F
18" TO 24" DIA.	USE 30F



NOTES:

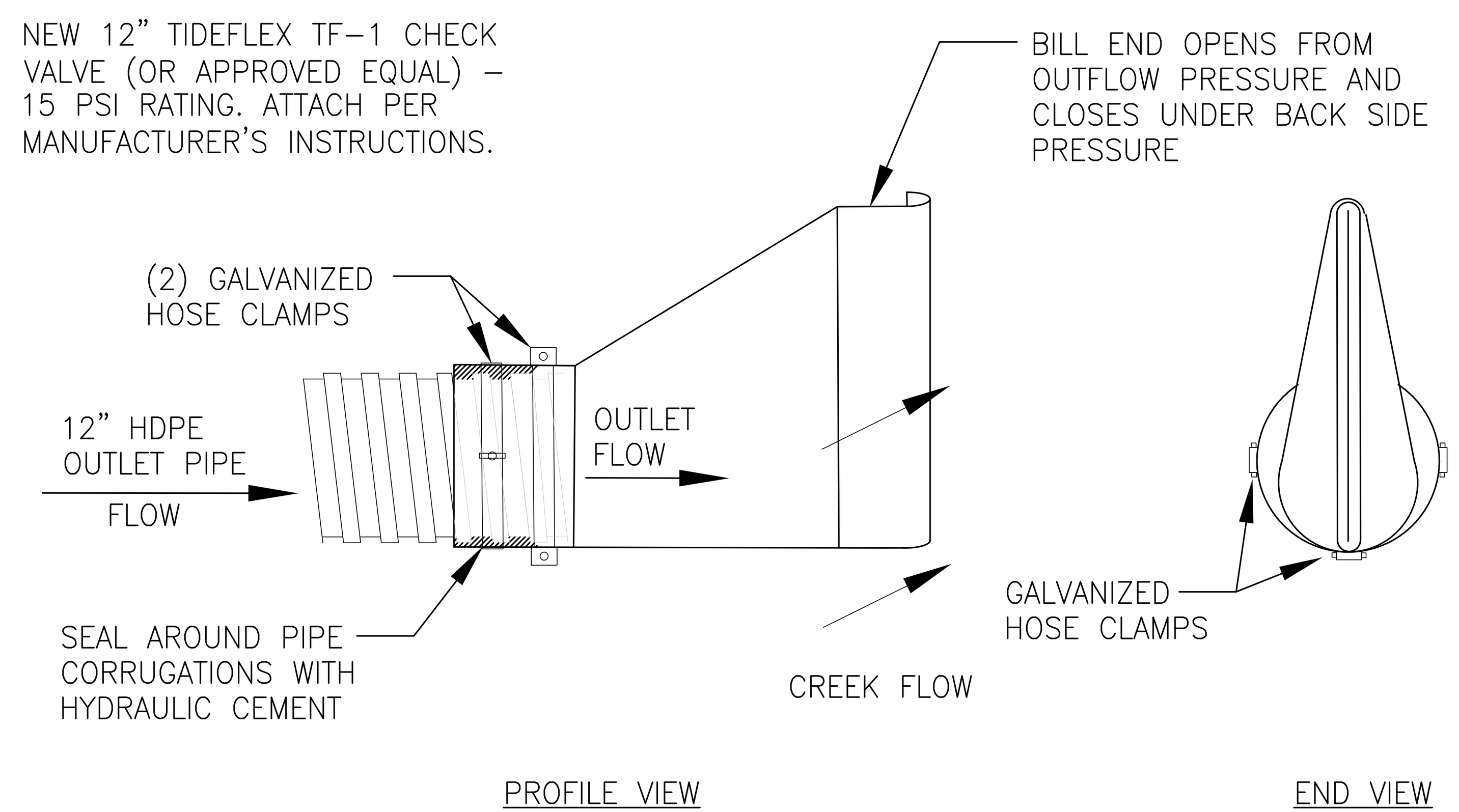
1. USE KISTNER SQ. 36" I.D. CATCH BASIN (OR APPROVED EQUAL) CONFORMING TO ASTM C 478 FOR NEW CATCH BASINS.
2. FOR HANDICAP ACCESSIBLE PATHS GRATING OPENINGS SHALL NOT EXCEED ½" IN ONE DIRECTION. GRATING OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE PROMINENT DIRECTION OF TRAVEL.

IF NECESSARY, ADJUST GRATES TO FIN. GRADE WITH KISTNER MH-RR6 (OR APPROVED EQUAL) EXTENSION RINGS. (A) THE JOINTS BETWEEN THE C.B. STRUCTURE AND THE EXTENSION RINGS SHALL BE MORTARED IN PLACE, (B) THE INDIVIDUAL RINGS SHALL NOT EXCEED 6" IN THICKNESS. THE TOTAL NUMBER PLACED SHALL BE LIMITED TO 2 OR A MAXIMUM OF 12" IN HEIGHT.

CATCH BASIN DETAIL (A)

SCALE : 1/2" = 1'-0"

NEW 12" TIDEFLEX TF-1 CHECK VALVE (OR APPROVED EQUAL) – 15 PSI RATING. ATTACH PER MANUFACTURER'S INSTRUCTIONS.



TIDEFLEX CHECK VALVE DETAIL (B)

SCALE : NONE

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Title: SITE DRAINAGE PLAN

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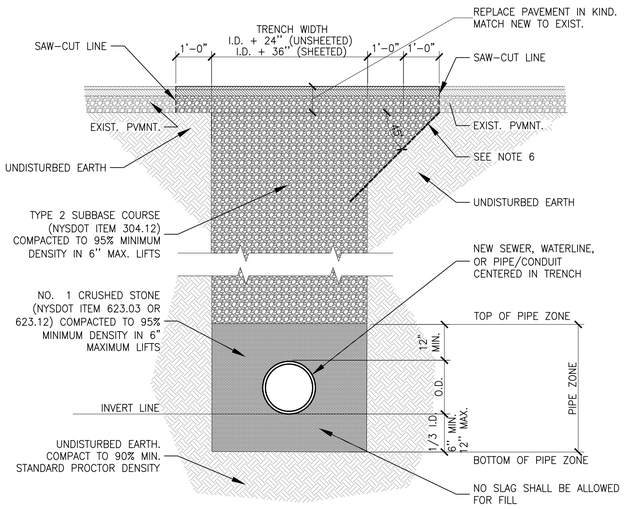


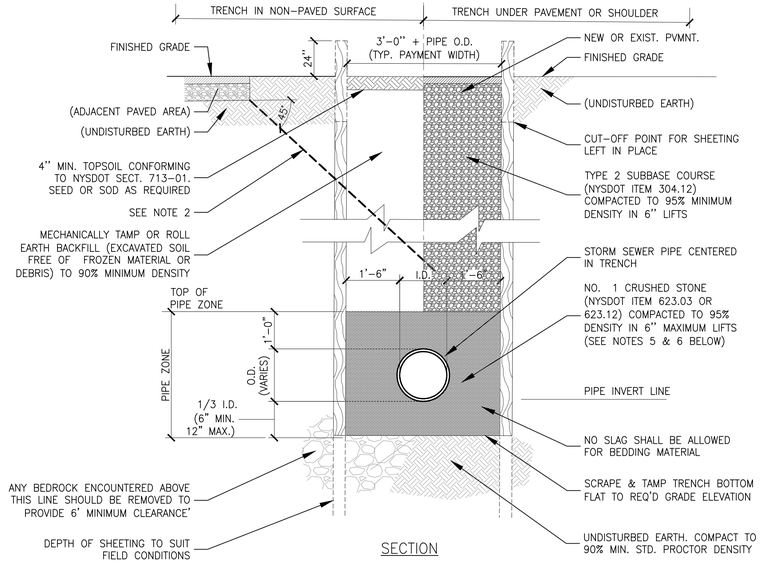
SECTION

PAVEMENT REPLACEMENT DETAIL (A)

SCALE : 1/2" = 1'-0"

NOTES

1. IF CONSTRUCTION IS PERFORMED BETWEEN OCTOBER 1 AND APRIL 1, THE CONTRACTOR IS REQUIRED TO PROVIDE 4" OF COLD PATCH FOR ALL PAVEMENT CUTS.
2. ALL OPEN CUTS WITHIN 50' OF AN INTERSECTION SHALL BE TOPPED WITH 4" OF COLD PATCH REGARDLESS OF THE TIME OF YEAR.
3. ALL ROAD CUTS ON HEAVILY TRAVELED HIGHWAYS ROADWAYS WILL REQUIRE 4" OF COLD PATCH (GENERALLY STATE AND COUNTY HIGHWAYS).
4. ALL TEMPORARY PAVEMENT PATCHES SHALL BE MAINTAINED BY THE CONTRACTOR.
5. SHEETING OR SHORING SHALL BE REQUIRED PER O.S.H.A. STANDARDS FOR WORKER SAFETY AND PROTECTION OF TRENCH AREA. ALL SHORING AND TRENCHING SHALL BE DONE AS DIRECTED BY THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER AND SHALL REMAIN IN PLACE UNTIL ALL TRENCHING OPERATIONS ARE COMPLETED.
6. SELECT FILL (NYSDOT ITEM 304.12) IS REQUIRED BENEATH NON-PAVED AREAS ADJACENT TO PAVED AREAS IF THE 45' LINE SHOWN ABOVE INTERCEPTS THE TRENCH ABOVE THE PIPE ZONE.
7. PIPE BEDDING AND MATERIAL AROUND THE PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO NYSDOT TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702-0201. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.
8. PAVEMENT CUTS BY THE CONTRACTOR WILL BE MADE WITH A SAW, PNEUMATIC SPADE OR OTHER ACCEPTED MEANS PRIOR TO EXCAVATION.
9. FINAL PAVEMENT RESTORATION: THE CONTRACTOR WILL BE RESPONSIBLE TO SAW CUT AN ADDITIONAL 12" ON EACH SIDE OF THE DISTURBED TRENCH AREA, SO AS TO PROVIDE A UNIFORM STRAIGHT EDGE. THE CUT EDGE WILL THEN BE COATED WITH A BITUMINOUS SEAL COAT AND REPLACED IN THE MANNER DESCRIBED ABOVE.



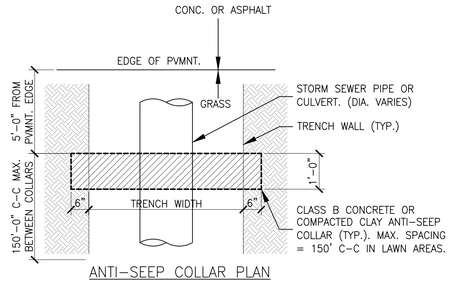
SECTION

STORM SEWER TRENCH (B)

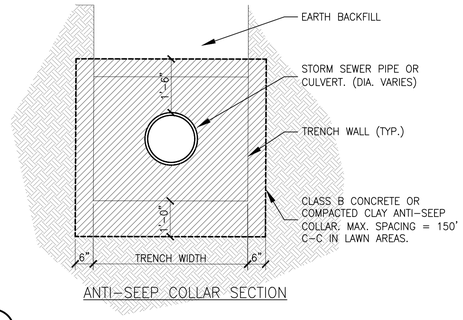
SCALE : 1/2" = 1'-0"

NOTES

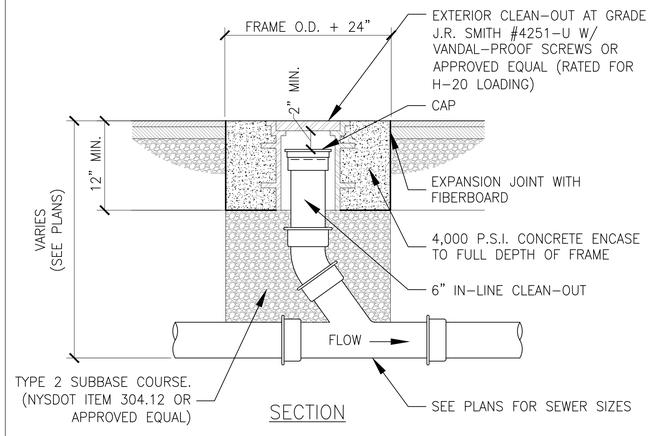
1. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.
2. SELECT FILL (NYSDOT ITEM 304.12) IS REQUIRED BENEATH NON-PAVED AREAS ADJACENT TO PAVED AREAS IF THE 45' LINE SHOWN ABOVE INTERCEPTS THE TRENCH ABOVE THE PIPE ZONE.
3. PIPE BEDDING AND MATERIAL AROUND THE PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO NYSDOT TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 703-0201. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.
4. COMPACTED CLAY OR CLASS B CONCRETE ANTI-SEEPAGE COLLARS SHALL BE USED IN GRASS AREAS TO ELIMINATE THE POSSIBILITY OF PIPE UNDERMINING DUE TO SEEPAGE THROUGH THE PIPE ZONE. (SEE DETAIL RIGHT).
5. IF SOFT MATERIALS OF POOR LOAD-BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVIED BY EXCAVATING A MINIMUM OF TWO PIPE DIAMETERS AND BACKFILLING TO THE PIPE INVERT WITH PIPE BEDDING AND COMPACTING TO 95% DENSITY AS IN NOTE 5 ABOVE.



ANTI-SEEP COLLAR PLAN



ANTI-SEEP COLLAR SECTION



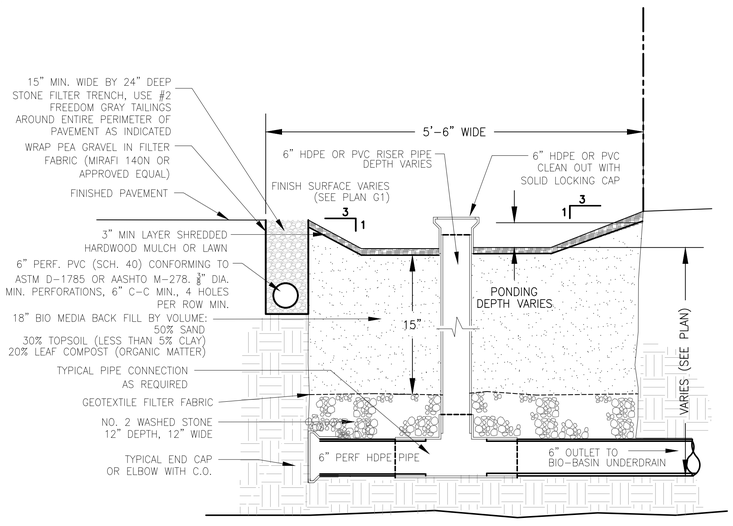
SECTION

PAVED AREA CLEAN-OUT DETAIL (D)

SCALE : 3/4" = 1'-0"

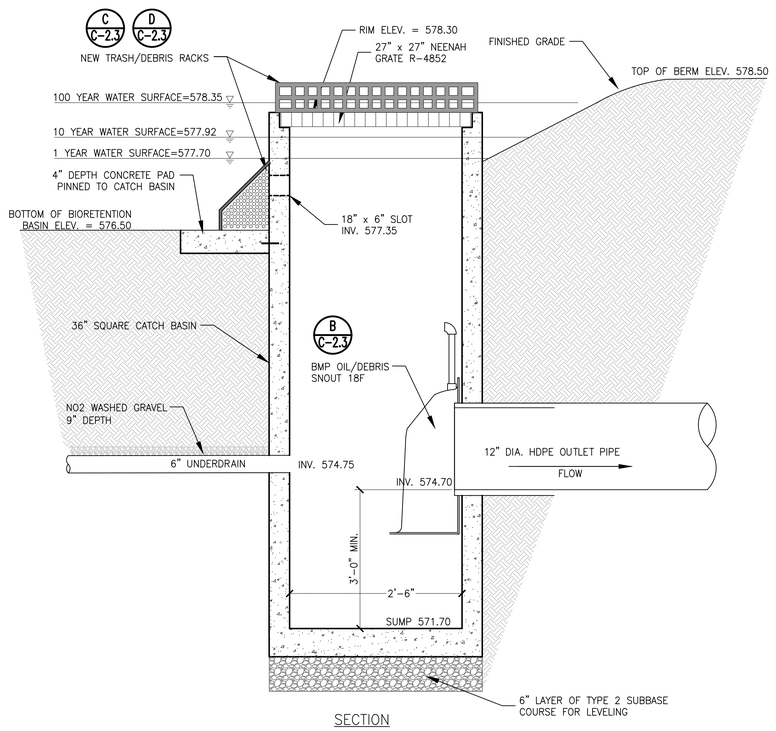
NOTES

1. CLEAN-OUT BODIES SHALL BE PVC MODEL 2-115 STANDARD FERRULE TYPE AND CLEAN-OUT PLUG SHALL BE CAST IRON, S-PLAIN COUNTERSUNK AS MANUFACTURED BY TYLER PIPE, OR APP. EQUAL.
2. CLEAN-OUTS SHALL BE LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEAN-OUT.



BIO-SWALE DETAIL (E)

SCALE : NONE



SECTION

OUTLET CONTROL STRUCTURE DETAIL (C)

SCALE : 1" = 1'-0"

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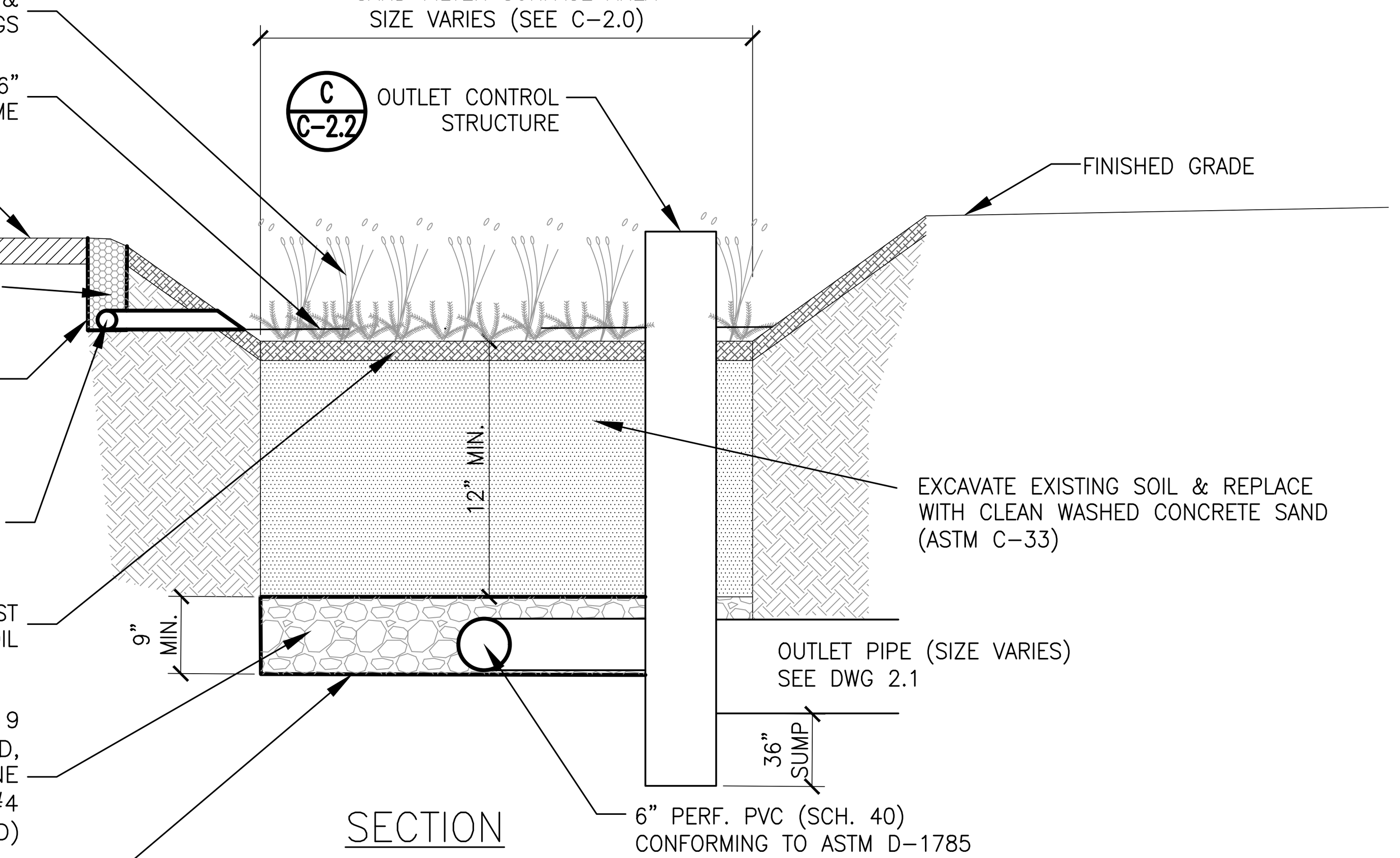


SANDFILTER BASIN (A)

SCALE : 1/2" = 1'-0"

INSTALLATION INSTRUCTIONS

1. THE UPSTREAM SIDE SLOPES OF THE SAND FILTER AREA SHALL BE STABILIZED AND SEEDED, WITH EROSION CONTROL BLANKET AS NECESSARY BEFORE THE EXCAVATION AND CONSTRUCTION OF THE SAND FILTER AREA. ABSOLUTELY NO UPSTREAM RUNOFF SHALL ENTER THE SAND FILTER AREA UNTIL ALL UPSTREAM CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED WITH PAVEMENT AND DENSE VEGETATION. AT A MINIMUM UPSTREAM AREAS SHALL BE HYDROSEEDED, HYDROMULCHED AND HAVE EROSION CONTROL BLANKETS OR TURF REINFORCEMENT MAT IN PLACE.
2. ALL WORK SHALL BE CARRIED OUT IN AREAS FROM RUNOFF OR GROUNDWATER. PUMPING SHALL BE USED IF NECESSARY TO MAINTAIN EXCAVATIONS FREE FROM WATER DURING THE DURATION OF THE CONSTRUCTION.
3. EXCAVATE THE SAND FILTER AREA TO DESIGN DIMENSIONS SHOWN IN THE SITE DRAINAGE PLAN. EXCAVATED SOIL SHALL BE REMOVED FROM THE TRENCH AREA AND DISPOSED OF AT AN APPROPRIATE OFFSITE LOCATION, OR ELSE PLACED AS FILL ELSEWHERE ON THE SITE IF IT DOES NOT CONFORM WITH FILTER SOIL MIXTURE REQUIREMENTS.
4. BURIED DEBRIS, VEGETATION, AND BOULDERS SHALL BE COMPLETELY REMOVED FROM THE TRENCH AREA. LARGE TREE ROOTS IN THE TRENCH AREA SHALL BE TRIMMED FLUSH WITH TRENCH SIDES IN ORDER TO PREVENT FILTER FABRIC PUNCTURE OR TEARING DURING INSTALLATION. A CERTIFIED TREE SURGEON SHALL TRIM EXISTING TREE CANOPIES TO BALANCE THE AMOUNT OF TREE ROOTS REMOVED.
5. FOLLOWING THE EXCAVATION THE FILTER FABRIC SHALL BE PLACED IN THE BOTTOM OF THE TRENCH. FILTER FABRIC SHALL CONFORM TO THE FOLLOWING MINIMUM CRITERIA:
   - A.S.T.M. D-4751 APP. OPENING SIZE: CLASS "C"
   - A.S.T.M. D-4632 GRAB TENSILE STRENTH: CLASS "C"
   - A.S.T.M. D-4833 BURST STRENGTH: CLASS "C"
6. THE WIDTH OF THE FILTER FABRIC MUST INCLUDE SUFFICIENT MATERIAL TO ENSURE 12-INCH MINIMUM TOP OVERLAP. WHEN OVERLAPS ARE REQUIRED BETWEEN ROLLS, THE UPHILL ROLL SHALL LAP A MINIMUM OF 2 FEET OVER THE DOWNHILL ROLL IN ORDER TO PROVIDE A SHINGLED EFFECT.
7. THE PERFORATED UNDERDRAIN SHALL BE PLACED AT THE CORRECT ELEVATIONS SHOWN ON THE SITE DRAINAGE PLAN AND LEVELED TO THE PROPER SLOPES USING A LASER.
8. UNDERDRAIN PEA GRAVEL SHALL CONFORM TO AASHTO M-43 NO. 67 (0.25"-0.75"). CARE SHALL BE EXERCISED TO PREVENT NATURAL FILL OR SOIL FROM INTERMIXING WITH PEA GRAVEL UNDERDRAIN MEDIA. ALL CONTAMINATED OR CLOGGED PEA GRAVEL SHALL BE REMOVED AND REPLACED WITH DOUBLE-WASHED UNCONTAMINATED PEA GRAVEL.
9. FOLLOWING THE PEA GRAVEL PLACEMENT AND LEVELING AROUND AND ABOVE THE PERFORATED PIPE, THE FILTER FABRIC SHALL BE FOLDED OVER THE PEA GRAVEL TO FORM A 12-INCH LONGITUDINAL OVERLAP.
10. THE FILTER SAND MEDIA SHALL CONFORM TO ASTM C-33 AND FREE OF STONES, WEEDS, STUMPS, ROOTS, FROZEN MATERIAL, OR DEBRIS.
11. PLACE SAND MEDIA IN TRENCH AND SMOOTH IN PLACE TO FINISHED GRADE USING BACKHOE BUCKET WITHOUT TAMPING OR COMPACTING. HEAVY EQUIPMENT AND TRAFFIC SHALL BE RESTRICTED FROM TRAVELING OVER THE SAND AREA TO MINIMIZE COMPACTION.
12. THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER AND THE EROSION CONTROL INSPECTOR SHALL INSPECT SAND FILTER MIXTURE AFTER PLACEMENT IN THE TRENCH TO VERIFY IT IS NOT COMPACTED SUCH THAT ITS INFILTRATION RATE IS NOT LESS THAN ½ AN INCH PER HOUR.

MAINTENANCE DURING CONSTRUCTION

1. SIDE SLOPES SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT FOR EROSION AND FORMATION OF RILLS OR GULLIES. ANY SHOULD BE REMOVED, AND THE SIDE SLOPES RE-GRADED AND RE-SEEDED AS NECESSARY.
2. IF EROSION CONTROL BLANKET IS USED ON SIDE SLOPES REPAIR IT IF IT BECOMES DETACHED OR UNDERMINES ANYWHERE ALONG THE SIDE SLOPES. REPLANT AND RE-SEED ANY GRASS AS NECESSARY BENEATH THE EROSION CONTROL BLANKET BEFORE REPAIRING OR RE-INSTALLING.
3. THE ABOVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

MAINTENANCE AFTER CONSTRUCTION:

1. THE SAND FILTER AREA SHALL BE INSPECTED AFTER EACH SPRING THAW AND AT REGULARLY SCHEDULED MAINTENANCE INTERVALS. DEBRIS SHOULD BE CLEANED OUT AND DISPOSED OF.
2. THE OVERFLOW STRUCTURES SHALL BE INSPECTED REGULARLY TO INSURE THAT GRASS, MULCH, OR DEBRIS IS NOT BLOCKING THE GRATE OR OUTLET PIPE INSIDE THE OUTLET STRUCTURE.
3. WEED AND WATER THE PLANTINGS AS REQUIRED BY THE PLANTING VENDOR'S INSTRUCTIONS.
4. IF NECESSARY OCCASIONAL REPLACEMENT OF PLANTS, MULCHING, AND THINNING CAN BE DONE TO MAINTAIN DESIRED APPEARANCE.
5. THE FOLLOWING REGULAR MAINTENANCE OF THE SAND FILTER AREAS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER:

   Sediment shall be cleaned out of any upstream detention basin when it accumulates to a depth of six (6) inches.

   Vegetation within the any detention basin shall be limited to a height of no more than 18 inches.

   Any upstream detention basin outlet devices shall be cleaned regularly to prevent trash and debris from clogging the outlets.

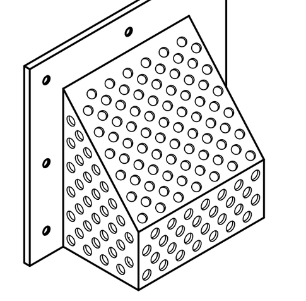
   Sediment and silt shall be removed from the top layer of the bioretention area when it accumulates to a depth of one (1) inch.

   If stormwater does not discharge from the bioretention area in less than 48 hours the top layer of mulch shall be replaced with a new layer. The clogged layer of mulch shall be disposed of offsite as per local regulations.

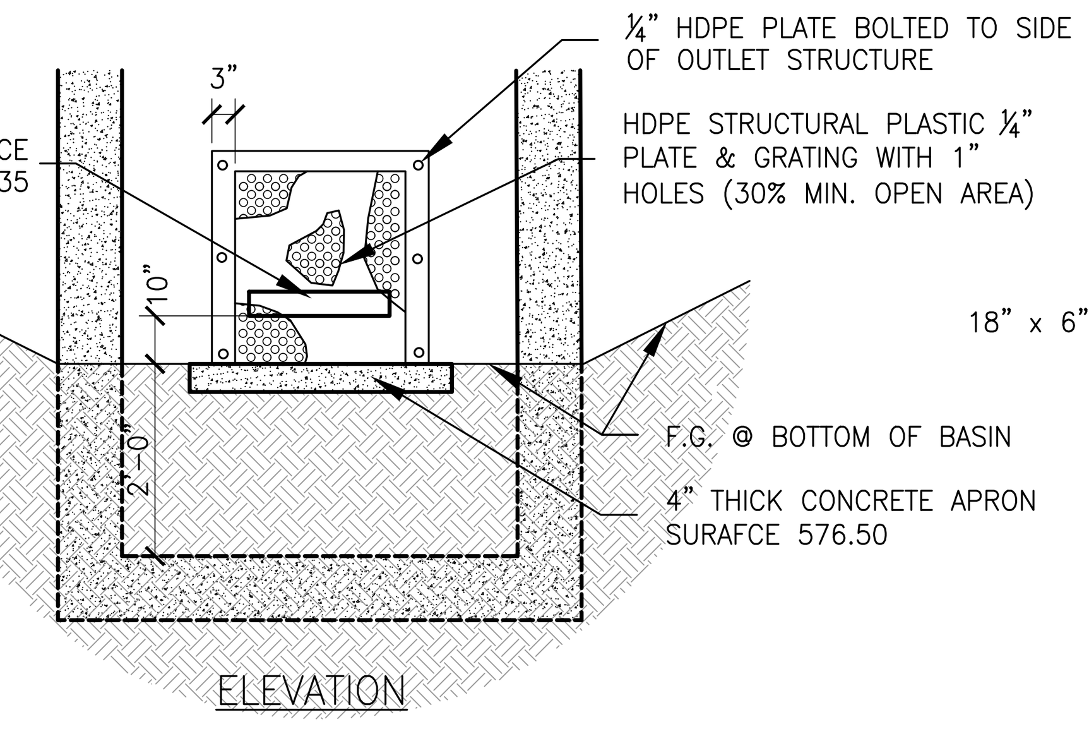
   Areas devoid of mulch shall be re-mulched on an annual basis.

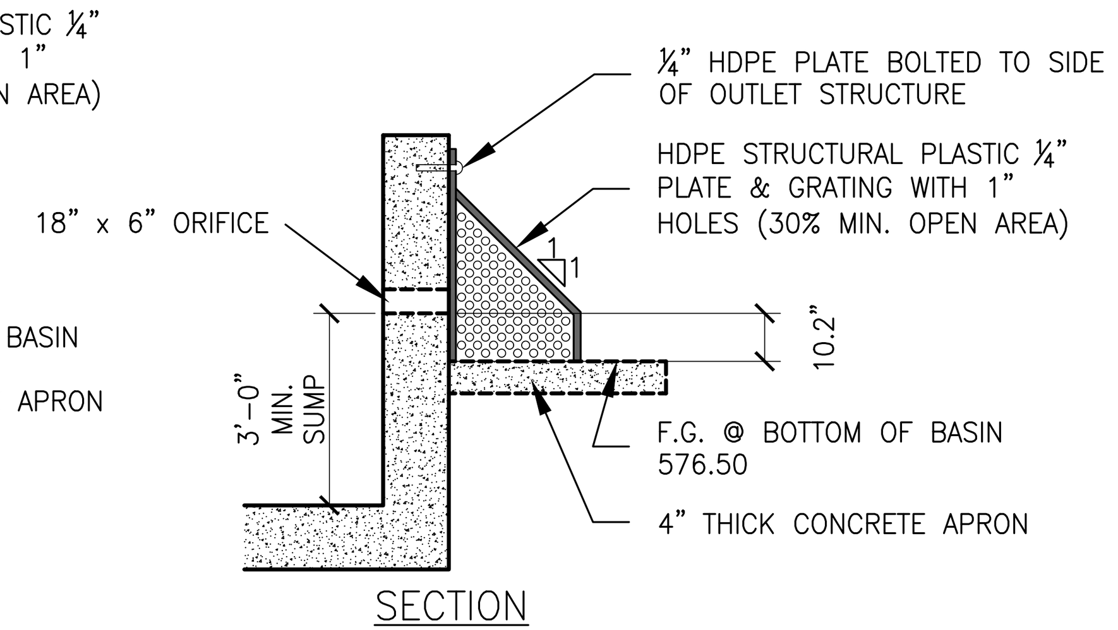
   Dead or diseased plants, shrubs, or trees shall be removed and replaced in kind.

   Clogged underdrains beneath the bioretention area shall be jetted and cleaned as necessary. Cleanouts shall function as inspection ports and should be checked annually.



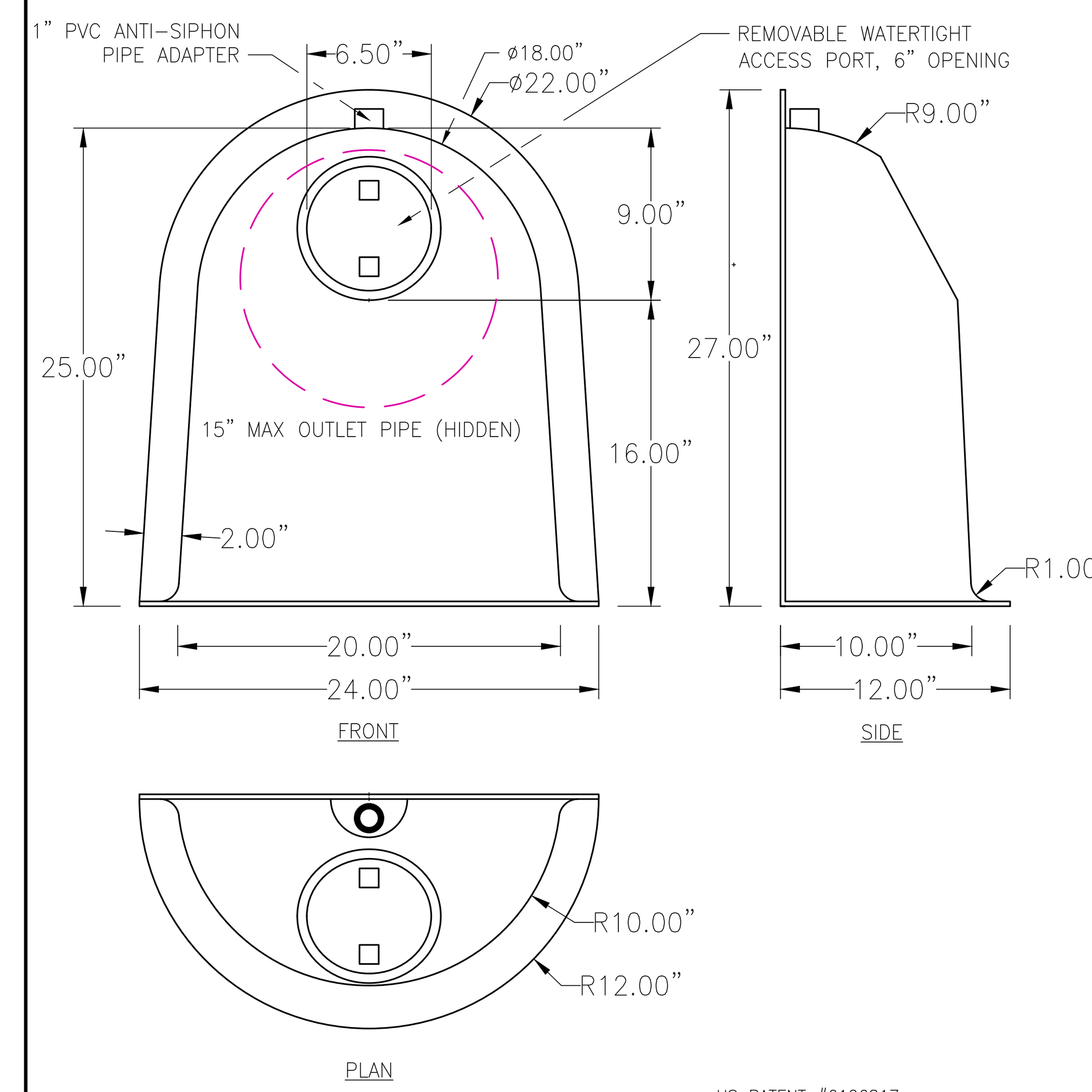
STORMRAX TRASH RACK OR APPROVED EQUAL. ORDER FROM PLASTIC SOLUTIONS, INC. (877) 877-5727 OR CONTECH (914) 489-3214





OUTLET STRUCTURE ORIFICE TRASH RACK - SIDE (C)

SCALE : 1/2" = 1'-0"



US PATENT #6126817 ADDITIONAL PATENTS PENDING

BMP, INC.
53 MT. ARCHER ROAD, LYME, CT. 06371
(800) 504-8008 FAX: (860)434-3195

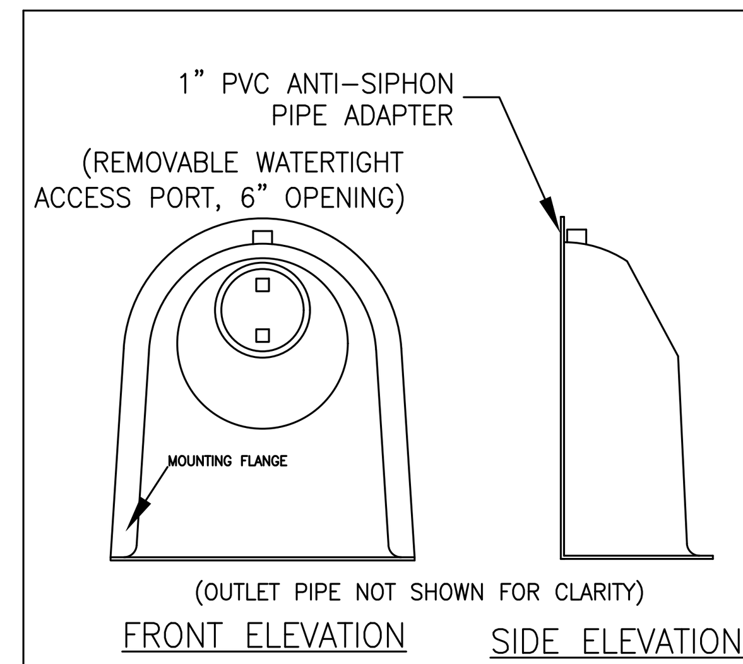
DESCRIPTION	DATE	SCALE
18F SNOUT OIL & DEBRIS STOP	09/14/99	NONE
	DRAWING NUMBER	
	18F	

CATCH BASIN INSERT MAINTENANCE INSTRUCTIONS

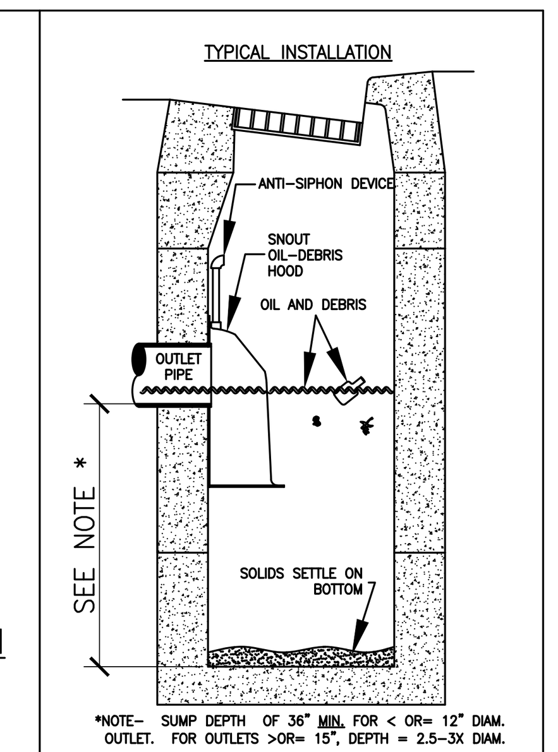
1. EVERY 12 MONTHS THE SNOUT FITTING AND ANTI-SIPHON DEVICE SHOULD BE INSPECTED AND RINSED WITH A HOSE OR PRESSURE WASHER TO VERIFY IT IS WORKING PROPERLY AND CLEAR OF DEBRIS.
2. AFTER FLUSHING THE SNOUT DEVICE AS INSTRUCTED IN STEP 1 ABOVE, THE CATCH BASIN STRUCTURE AND SUMP SHALL BE CLEANED OF ALL FLOATING OIL AND SETTLED DEBRIS AND SEDIMENTS USING A VAC-TRON OR OTHER VACUUM OR SUCTION DEVICE.

CATCH BASIN INSERT DETAIL (B)

SCALE : N.T.S.



CONFIGURATION DETAIL



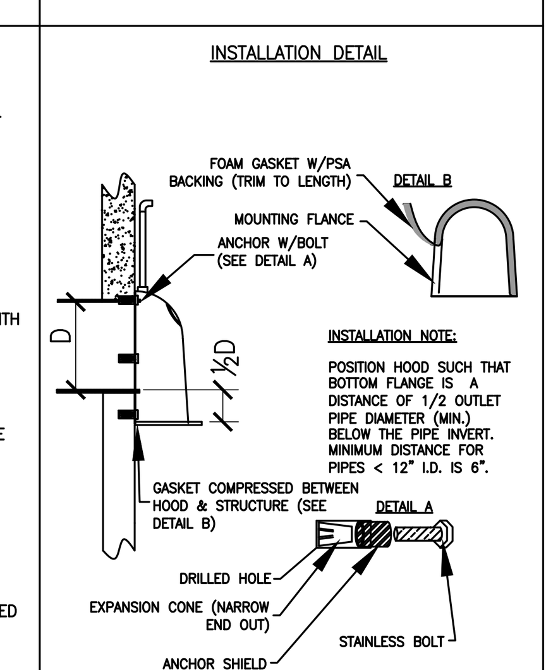
*NOTE- SUMP DEPTH OF 36" MIN. FOR < OR= 12" DIAM. OUTLET. FOR OUTLETS >OR= 15", DEPTH = 2.5-3X DIAM.

NOTES:

1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE
   AS MANUFACTURED BY:
   BEST MANAGEMENT PRODUCTS, INC.
   53 MT. ARCHER RD.
   LYME, CT 06371
   (860) 434-0277, (860) 434-3195 FAX
   TOLL FREE: (800) 504-8008 OR (888) 354-7585
   WEB SITE: www.bmpinc.com
   OR PRE-APPROVED EQUAL
2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL)
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
8. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8' STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
9. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT.

   INSTALLATION KIT SHALL INCLUDE:
   A. INSTALLATION INSTRUCTIONS
   B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
   C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
   D. 3/8" STAINLESS STEEL BOLTS
   E. ANCHOR SHIELDS

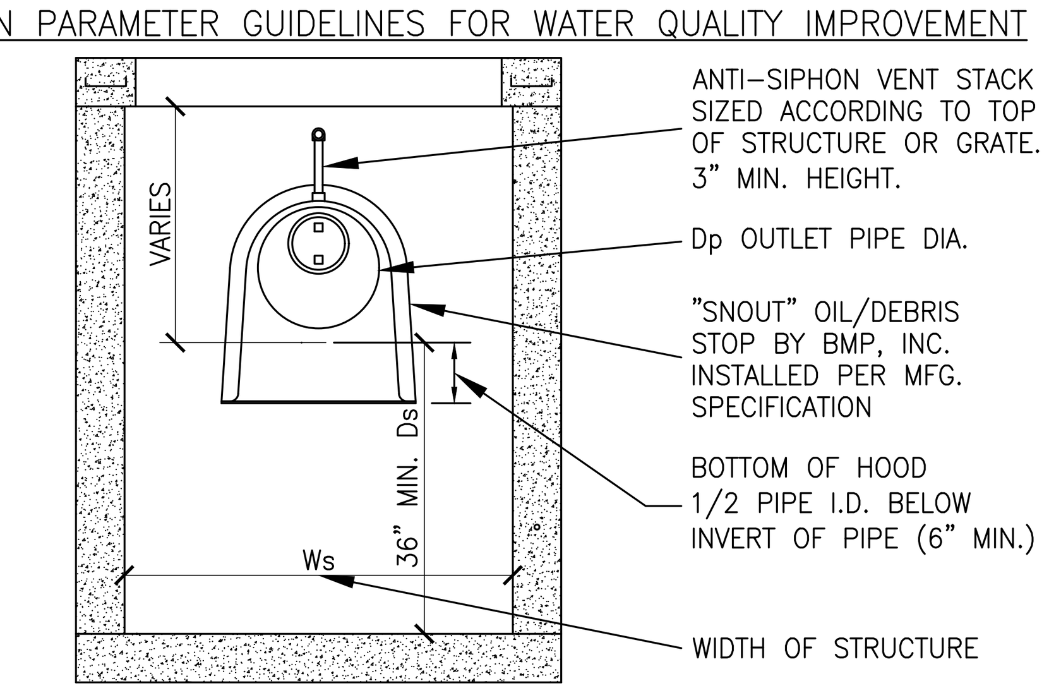
US Patent # 6126817



HOOD SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES

DESCRIPTION	DATE	SCALE
OIL- DEBRIS HOOD SPECIFICATION AND INSTALLATION (TYPICAL)		N.T.S.
	DRAWING NUMBER	
	SP-SN	

DESIGN PARAMETER GUIDELINES FOR WATER QUALITY IMPROVEMENT



RULE # 1- AT AN ABSOLUTE MINIMUM, STRUCTURE INTERNAL DIMENSIONS MUST BE AT LEAST LARGE ENOUGH TO ACCOMMODATE EXTERNAL DIMENSIONS OF THE SNOUT, AND ALLOW FOR A PERSON TO INSTALL IT. REFER TO BMP, INC. CAD DETAILS FOR PART DIMENSIONS.

RULE #2- USE ONLY "F" SERIES SNOUTS FOR RECTANGULAR OR SQUARE STRUCTURES, AVAILABLE IN 12", 18", 24", 30", 48", AND 96" SIZES. USE ONLY "R" SERIES SNOUTS FOR ROUND STRUCTURES, AVAILABLE IN 12", 18", 24", AND, 30" SIZES.

SUMP DEPTH (Ds)- SUMP DEPTH SHOULD BE A MINIMUM OF 36" FOR ANY NEW CONSTRUCTION FOR PIPES 12" AND LESS. FOR 15"-18" PIPE MIN. DEPTH SHOULD BE 48". OPTIMAL SIZING IS AT LEAST 2.5X TO 3X OUTLET PIPE DIAMETER (Dp) FOR MAXIMUM POLLUTANT REMOVAL EFFICIENCY AND MINIMAL CLEANOUT FREQUENCY.

STRUCTURE DIMENSIONS- PLAN DIMENSIONS FOR A STRUCTURE SHOULD BE APPROX. 7X AREA OF OUTLET PIPE FOR MAXIMUM POLLUTANT REMOVAL EFFICIENCY AND MINIMAL CLEANOUT FREQUENCY. (SEE MAINTENANCE FREQUENCY CALCULATION SHEET FOR MORE INFORMATION)

IMPORTANT NOTICE: DO NOT CONFUSE PIPE O.D WITH PIPE I.D. A SNOUT FITS OVER A PIPE, NOT IN IT. THUS, SNOUT MUST BE SIZED TO FIT OVER PIPE OPENING IN STRUCTURE. SNOUTS ARE AVAILABLE FOR ROUND STRUCTURES TO ACCOMMODATE PIPES OF 30" O.D. MAX. FOR PIPES 30" O.D. AND ABOVE, USE SQUARE OR RECTANGULAR STRUCTURES.

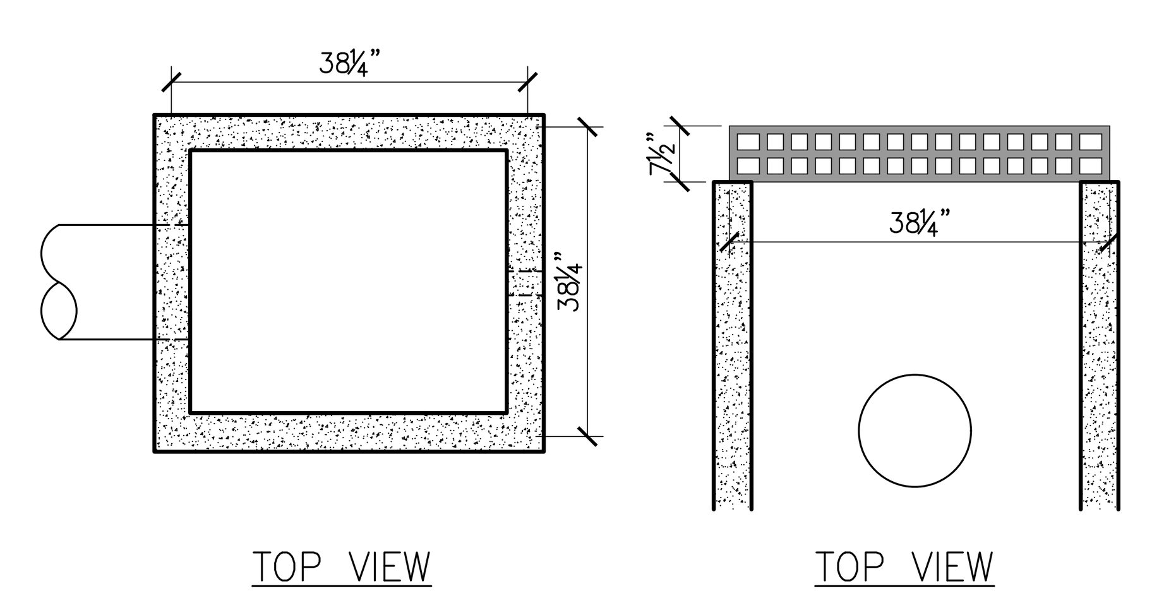
SIZING EXAMPLES:

STRUCTURE OUTLET HOLE SIZE	SNOUT SIZE
11.9" O.D. OR LESS	12 F or R
12.0"-17.9" O.D.	18 F or R
18.0"-23.9" O.D.	24 F or R
24.0"-29.9" O.D.	30 F or R
30.0"-47.9" O.D.	48 F
48.0"-95.9" O.D.	96 F

U. S. Patent # 6126817

BMP, INC.
53 MT. ARCHER ROAD, LYME, CT. 06371
(800) 504-8008 FAX: (860)434-3195

DESCRIPTION	DATE	SCALE
SNOUT SIZING CHART		N.T.S.
	DRAWING NUMBER	
	SP-SI	



STORMRAX FLAT ROOF (FR) RECTANGULAR RACK OR APPROVED EQUAL. ORDER FROM PLASTIC SOLUTIONS, INC. (877) 877-5727 OR FOR LOCAL SUPPLIER.

AVAILABLE OPTIONS	
"L" CHANNEL STEEL CROSS BRACING	NO
REMOVABLE ACCESS HATCH	YES
HDPE ANTI-VORTEX PLATE	NO

OUTLET STRUCTURE TRASH/DEBRIS PREVENTION RACK - TOP (D)

SCALE : 1/2" = 1'-0"

SUTTON architecture "Design2Build"

5409 Main Street (Second Floor)
Williamsville, NY 14221 (716) 932-7156 Fax 932-7873

Job Number: 18-461

Proposed Renovation For:

Fedder Lofts, LLC

57 Tonawanda Street
Buffalo, NY

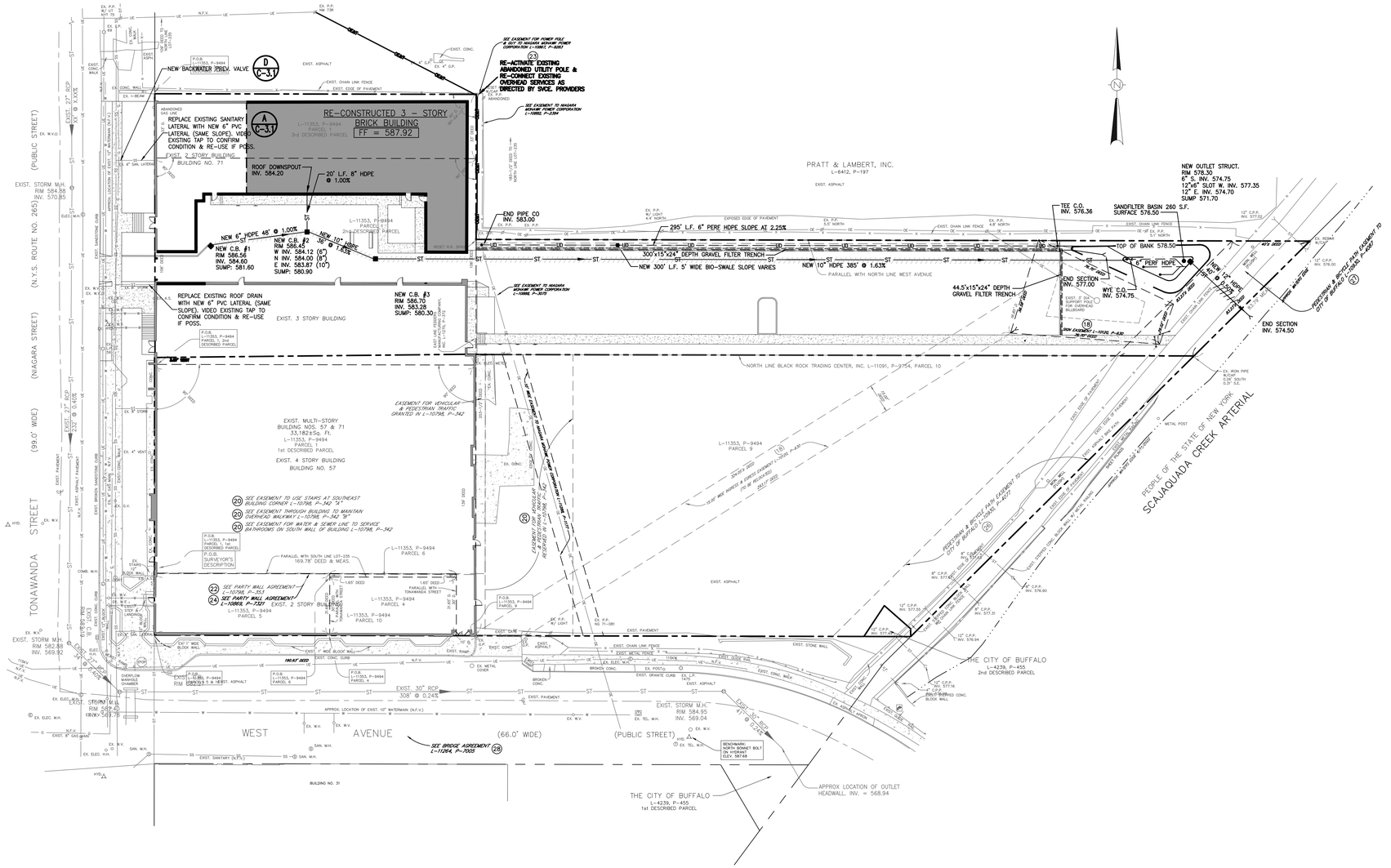
No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

Title: DRAINAGE DETAILS

Drawn By: DAS	Sheet No.: C-2.3
Date: 5-26-22	
Checked: AVT	
Scale: AS NOTED	

NOTES

1. FOR REFERENCE INFORMATION SEE TOPOGRAPHIC & BOUNDARY SURVEY PREPARED BY MCINTOSH & MCINTOSH, P.C. INCLUDED WITH THIS SET OF SITE PLANS.
2. FOR REFERENCE ALSO SEE EXACT UTILITY CONNECTION LOCATIONS AND DEPTHS ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, H.V.A.C., AND PLUMBING PLANS.
3. EXISTING SERVICE UTILITY CONNECTIONS TO BE ABANDONED OR DISCONTINUED SHALL BE SHUT OFF BY THE RESPECTIVE UTILITY AGENCY PRIOR TO THE START OF WORK.
4. EXISTING UNDERGROUND UTILITY LINES TO REMAIN WHICH ARE UNCOVERED BY EXCAVATION SHALL BE ADEQUATELY SUPPORTED AND PROTECTED DURING EARTHWORK ACTIVITIES.
5. THE CONTRACTOR SHALL PROVIDE SLEEVES THROUGH NEW FOUNDATION WALLS AS NECESSARY FOR PROTECTING EXISTING AND PROPOSED UTILITY LINES.
6. A MINIMUM 1 FOOT (12 INCH) SEPARATION DISTANCE IS REQUIRED AT WATERLINE AND SANITARY SEWER CROSSINGS, OR ELSE THE WATERLINE SHALL BE SLEEVED TO 5 FEET HORIZONTALLY FROM THE CENTERLINE OF THE SANITARY SEWER ON BOTH SIDES OF THE CROSSING. ALL WATERLINES SHALL CROSS ABOVE SANITARY SEWERS.
7. WHERE WATERLINES ARE LOCATED PARALLEL TO SANITARY SEWERS, THERE SHALL BE A MINIMUM HORIZONTAL SEPARATION DISTANCE OF 5 FEET (60 INCHES) FROM OUTSIDE OF THE WATERLINE AND THE SANITARY SEWER.
8. ALL NEW GAS, TELEPHONE, CABLE, AND ELECTRICAL UTILITIES SHALL BE DESIGNED, SIZED, AND INSTALLED IN COORDINATION WITH EACH RESPECTIVE UTILITY AGENCY.
9. ALL NEW WATERLINE PIPING SHALL BE INSTALLED WITH A MIN. 5'-0" (60 INCH) DEPTH OF COVER.
10. THE NEW RPZ BACKFLOW PREVENTION DEVICE SHALL BE PRIVATELY OWNED AND MAINTAINED.
11. THE NEW WATER METER SHALL BE SUPPLIED BY THE CITY OF BUFFALO DIVISION OF WATER, INSTALLED BY THE CONTRACTOR/PLUMBING SUBCONTRACTOR, AND PRIVATELY OWNED AND MAINTAINED.
12. PRIOR TO THE BEGINNING OF THE NEW WATER SERVICE, ALL NEW WATERLINES SHALL BE PURGED AND DISINFECTED IN COMPLIANCE WITH THE LATEST AWWA C651, AWWA C652, OR SECTION 610.1 OF THE NYS PLUMBING CODE
13. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THE SURVEY OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION. THE DESIGN ENGINEER (STUDIO T3) AND THE RESPECTIVE UTILITY COMPANIES SHALL BE IMMEDIATELY NOTIFIED BY THE INSTALLATION CONTRACTOR UPON DISCOVERY OF ANY SUCH ABOVEGROUND OR UNDERGROUND UTILITIES NOT SHOWN ON THE SURVEY. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED UTILITIES ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.
14. THE DESIGN ENGINEER (STUDIO T3) SHOULD BE IMMEDIATELY CONTACTED UPON DISCOVERY OF ANY ABOVEGROUND OR BELOW GROUND OBJECTS (BUILDING FOUNDATIONS, BURIED VAULTS, TREES, SIDEWALKS, PAVEMENT, RAILINGS, SIGNS, STOCKPILES, STUMPS, OR SIMILAR). WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED OBJECTS ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.
15. A CERTIFIED BACKFLOW PREVENTION DEVICE TESTER RETAINED BY THE OWNER SHALL APPROVE AND CERTIFY SATISFACTORY INSTALLATION OF THE DEVICE WITHIN 45 DAYS OF THE INSTALLATION. THE COMPLETED DOH-1013 FORM SHALL BE SUBMITTED TO THE NEW YORK STATE HEALTH DEPARTMENT AND THE CITY OF BUFFALO DIVISION OF WATER WITHIN 30 DAYS OF TESTING THE DEVICE.
16. AN ANNUAL TEST TO CERTIFY THE DEVICE MEETS THE REQUIREMENTS OF AN ACCEPTABLE CONTAINMENT DEVICE SHALL BE COMPLETED BY A N.Y.S. CERTIFIED TESTER ON A YEARLY BASIS AND SUBMITTED TO THE NEW YORK STATE HEALTH DEPARTMENT AND THE CITY OF BUFFALO DIVISOIN OF WATER WITHIN 30 DAYS OF TESTING THE DEVICE.
17. NATIONAL FUEL SHALL SUPPLY, INSTALL, OWN, AND MAINTAIN THE NEW GAS METER BANK. NATIONAL FUEL SHALL ALSO TAP, INSTALL, AND OWN THE NEW GAS SERVICE LINE FROM MAIN TO NEW METER. CONTACT NATIONAL FUEL AT (800) 295-0059 FOR INSTRUCTIONS, INSTALLATION COORDINATION, INSPECTION APPOINTMENTS, PERMIT APPLICATIONS, AND FEES.
18. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 12" VERTICAL SEPARATION DISTANCE BETWEEN EXISTING GAS AND ELECTRIC LINES AND NEW WATERLINES, STORM, OR SANITARY SEWERS. ALL NEW UNDERGROUND UTILITIES SHALL PASS BENEATH EXISTING ELECTRIC AND GAS LINES UNLESS CONSENT IS OTHERWISE GIVEN BY THE SERVICE PROVIDER OR EASEMENT OWNER.
19. THE GENERAL CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTS AS REQUIRED IN THE N.Y.S. PLUMBING CODE SECTIONS 312.2 THRU 312.9 AND AWWA C600.
20. ALL JOINTS OR JOINT SYSTEMS FOR STORM SEWERS SHALL BE SILT TIGHT, AND SHALL RESIST INFILTRATION OF SOIL PARTICLES THAT PASS THE NO. 200 SIEVE. ALL JOINTS OR JOINT SYSTEMS FOR SANITARY SEWERS OR LATERALS SHALL BE WATER-TIGHT TO LIMIT LEAKAGE TO A MAXIMUM RATE OF 100 GALLONS PER INCH-DIAMETER PER MILE PER DAY.
21. PER SECTION 107.2 OF THE NYS PLUMBING CODE, THE CONTRACTOR SHALL NOTIFY THE CITY OF BUFFALO PLUMBING INSPECTOR AT (716) 851-5067 TO SCHEDULE INSPECTIONS. UNDERGROUND INSPECTIONS SHALL BE MADE AFTER TRENCHES ARE EXCAVATED AND NEEDED, PIPING INSTALLED, AND BEFORE ANY BACKFILL IS PUT IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE PLUMBING INSPECTOR WHEN WORK IS READY FOR INSPECTION. EQUIPMENT, MATERIAL, AND LABOR REQUIRED FOR TESTING SHALL BE FURNISHED BY THE CONTRACTOR.
22. THE DESIGN ENGINEER (STUDIO T3) IS NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND COMPLIANCE WITH THE LATEST OSHA STANDARDS OR INDUSTRIAL CODE RULE 57 DURING CONSTRUCTION.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT THE CITY OF BUFFALO BUILDING DEPARTMENT AT (716) 851-4949 FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.



LEGEND

G — G	EXISTING GAS LINE
W — W	EXISTING WATERLINE
W — W	NEW WATERLINE
E — E	EXISTING UNDERGROUND ELECTRIC CONDUIT
E — E	NEW UNDERGROUND ELECTRIC CONDUIT
OH — OH	EXISTING OVERHEAD WIRES
OH — OH	NEW OVERHEAD WIRES
SS — SS	EXISTING SANITARY SEWER
SS — SS	NEW SANITARY SEWER
ST — ST	EXISTING STORM SEWER
ST — ST	NEW STORM SEWER
UD — UD	NEW PERFORATED PVC UNDERDRAIN
☐ CB	EXISTING CATCH BASIN
■ CB	NEW CATCH BASIN
○ GV	EXISTING GAS VALVE
○ WV	EXISTING WATER VALVE
○ MH	EXISTING MANHOLE
● MH	NEW MANHOLE
⌀ U.P.	EXISTING UTILITY POLE
☼	EXISTING LIGHT FIXTURE
●→	NEW LIGHT FIXTURE
○ CO	EXISTING CLEAN-OUT
● CO	NEW CLEAN-OUT

SITE UTILITY PLAN

SCALE : 1"= 30'-0"

0 30 60 120

N

STATE OF NEW YORK ANDREW V. TERRACINO 080634 LICENSED PROFESSIONAL ENGINEER

SUTTON architecture "Design2Build"

5409 Main Street (Second Floor)
Williamsville, NY 14221 (716) 932-7156 Fax 932-7873

Job Number: 18-461

Proposed Renovation For:

Fedder Lofts, LLC

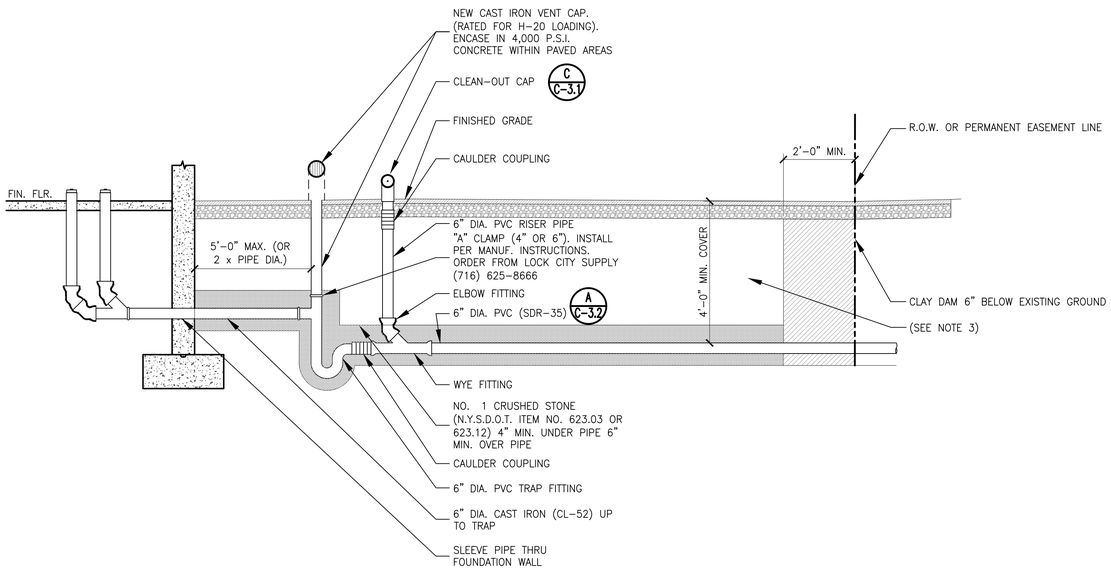
57 Tonawanda Street Buffalo, NY

No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

WARNING:
It is a violation of Article 147, Section 7303 of the New York State Education Law for any person to alter an item, in any way, on this document, unless under the direction of a licensed Architect.

Title: SITE UTILITY PLAN

Drawn By: DAS	Sheet No.: C-3.0
Date: 5-26-22	
Checked: AVT	
Scale: AS NOTED	



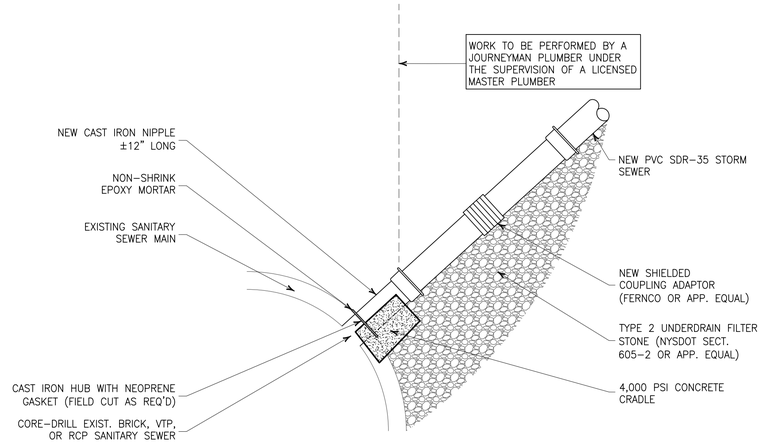
PROFILE

SANITARY SEWER LATERAL DETAIL — A

SCALE : 1/2" = 1'-0"

NOTES:

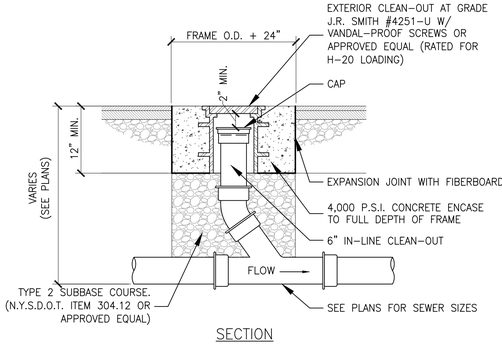
1. THE SERVICE LATERAL MUST BE INSTALLED A MINIMUM OF 10" ABOVE THE BASEMENT FLOOR, (IF BUILDING CONTAINS A BASEMENT). WHERE LOCAL BUILDING ORDINANCES REQUIRE A GREATER DISTANCE, THE CONTRACTORS ARE TO COMPLY WITH THE MORE STRINGENT.
2. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST A.S.T.M. SPECIFICATION D-3033/D-3034. CAST IRON PIPE MATERIAL SHALL BE EXTRA HEAVY CAST IRON MEETING THE REQUIREMENTS OF A.S.T.M. A74-42.
3. SELECT BACKFILL (TYPE 2 SUBBASE COURSE) REQUIRED UNDER PAVED AREAS.
4. CONCRETE ENCASEMENT IS REQUIRED FOR SEWERS WITH LESS THAN 4 FEET OF COVER UNDER PAVED AREAS.
5. BEDDING MATERIAL AND MATERIAL AROUND PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO THE GRADATION IN N.Y.S.D.O.T. TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702-0201. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.
6. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF TRENCH SHEETING OR SHORING REQUIRED AS PER THE LATEST O.S.H.A. STANDARDS, OR FOR WORKER SAFETY AND PROTECTION TRENCH AREAS. THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER SHALL DESIGN, OBSERVE THE INSTALLATION, AND APPROVE THE TRENCH SHIELDING DURING TRENCH OPERATIONS.



SEWER CONNECTION DETAIL — B

SCALE : 3/4" = 1'-0"

DETAIL FURNISHED BY THE BUFFALO SEWER AUTHORITY



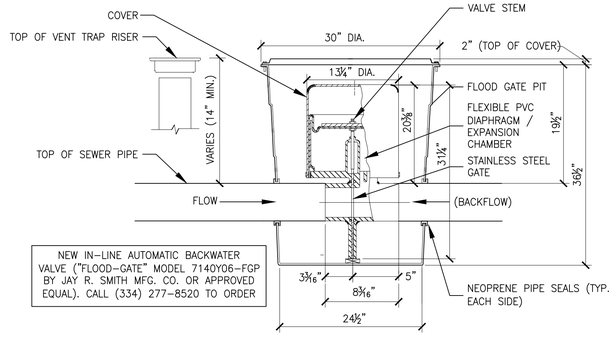
SECTION

PAVED AREA CLEAN-OUT DETAIL — C

SCALE : 3/4" = 1'-0"

NOTES:

1. CLEAN-OUT BODIES SHALL BE PVC MODEL 2-115 STANDARD FERRULE TYPE AND CLEAN-OUT PLUG SHALL BE CAST IRON, S-PLAIN COUNTERSUNK AS MANUFACTURED BY TYLER PIPE, OR APP. EQUAL.
2. CLEAN-OUTS SHALL BE LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEAN-OUT.
3. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCEWITH ALL A.C.I. REQUIREMENTS.



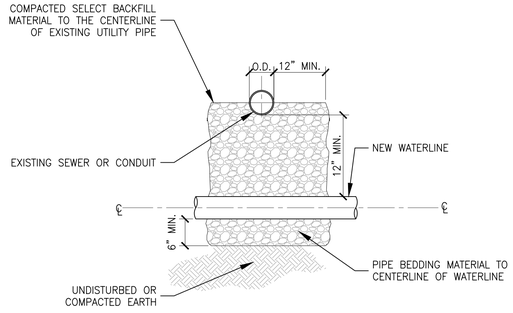
BACKWATER PREVENTION VALVE DETAIL — D

SCALE : N.T.S.

THIS DETAIL SUPPLIED BY JAY R. SMITH MFG. CO.

NOTES

1. ALL BEARING PARTS SHALL BE OF CORROSION-RESISTANT MATERIALS.
2. BACKWATER VALVES SHALL CONFORM TO ASME A112.14.1, CAN/CSA-B181.1, OR CAN/CSA-B181.2.
3. BACKWATER VALVES WHEN FULLY OPEN SHALL NOT RESTRICT THE FULL FLOW CAPACITY OF THE PIPES ON WHICH THEY ARE INSTALLED.



SECTION

PIPE CROSSING DETAILS — E

SCALE : 3/4" = 1'-0"

NOTES:

1. ALL EXISTING UTILITIES MUST BE SUPPORTED DURING CONSTRUCTION OF THE NEW FIRE LINE. COST SHALL BE INCLUDED IN PIPE PRICE.
2. WHEN CROSSING A SEWER LINE WITH A NEW WATERLINE, ONE FULL PIPE LENGTH (18 FT. MIN.) SHALL BE USED AT THE POINT OF CROSSING. THE PIPE LINE SHALL BE PLACED SO THAT BOTH JOINTS ENDS ARE AS FAR AS POSSIBLE FROM THE EXISTING SEWER.

STATE OF NEW YORK ANDREW V. TERRANOVA 080634 LICENSED PROFESSIONAL ENGINEER

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Title: UTILITY DETAILS

Drawn By: DAS	Sheet No.: C-3.1
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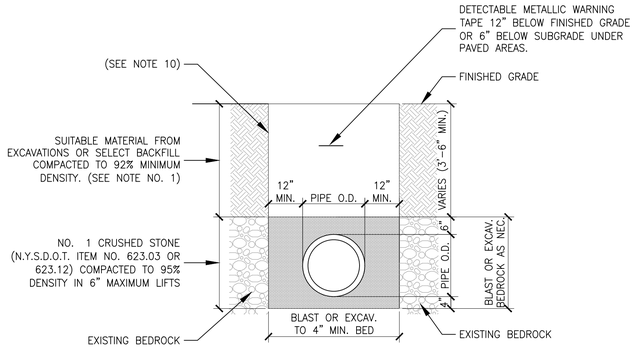
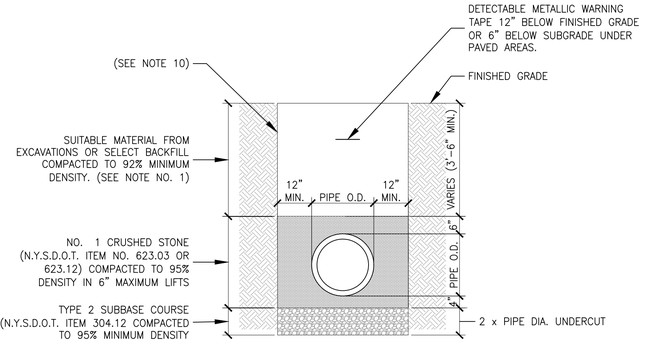
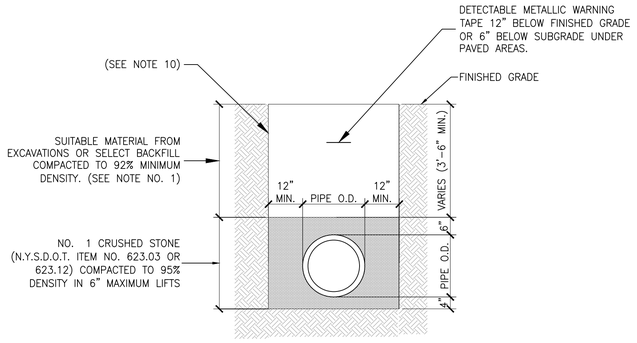


BEDROCK CONDITION



UNSTABLE TRENCH BOTTOM CONDITIONS



STABLE TRENCH BOTTOM CONDITIONS

SANITARY SEWER TRENCH DETAILS (A)

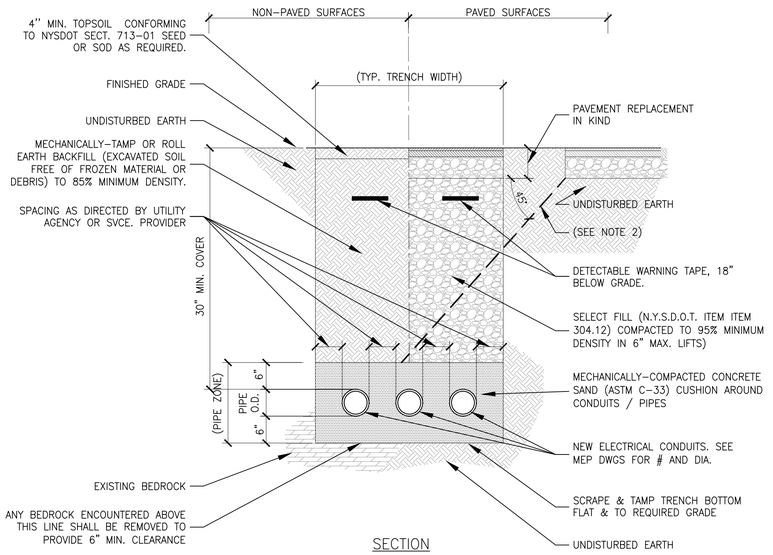
SCALE : 1/2" = 1'-0"

SANITARY SEWER NOTES

1. MATERIALS
   a. BEDDING MATERIAL AND MATERIAL AROUND PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO THE GRADATION IN N.Y.S.D.O.T. TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702-0201. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.
   b. UNDER ALL PAVED AREAS, BACKFILL ABOVE THE BEDDING MATERIAL SHALL BE WITH SELECT FILL.
   c. SELECT FILL SHALL BE TYPE 2 SUBBASE COURSE (N.Y.S.D.O.T. ITEM 304.12) COMPACTED TO 95% MINIMUM DENSITY IN 6" MAXIMUM LIFTS.
   d. UNDER LAWN AREAS, BACKFILL ABOVE THE BEDDING MATERIAL MAY BE WITH SUITABLE MATERIAL FROM THE EXCAVATIONS.
   e. SUITABLE MATERIAL FROM THE EXCAVATIONS SHALL BE ANY MINERAL (INORGANIC) SOIL FREE OF FROZEN MATERIAL, MUCK, PEAT, TOPSOIL, AND SOD.
   f. WHEN UNSTABLE TRENCH BOTTOM CONDITIONS ARE ENCOUNTERED,THE UNSTABLE TRENCH BOTTOMS SHALL BE UNDERCUT AND BACKFILLED WITH TYPE 2 SUBBASE COURSE (N.Y.S.D.O.T. ITEM NO. 304.12) COMPACTED TO 95% MIN. DENSITY, OR AS DIRECTED BY OWNER'S ON-SITE GEOTECHNICAL ENGINEER.
2. COMPACTION IS REQUIRED FOR ALL BEDDING, SELECT FILL AND BACKFILL WORK. SEE DETAILS AND SPECIFICATIONS FOR REQUIREMENTS.
3. ALL SANITARY SEWER MANHOLE COVERS SHALL BE EMBOSSED"SANITARY" AND "FATAL IF ENTERED".
4. ALL INTERIOR FLOOR DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER. FOUNDATION OR FOOTER DRAINS INSTALLED TO INTERCEPT GROUNDWATER SHALL NOT DISCHARGE TO THE SANITARY SEWER. ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL SEWER USE LAW. INFILTRATION AND EXFILTRATION TESTING SHALL BE PERFORMED WITH RATES LIMITED TO 100 GALLONS PER MILE PER INCH DIAMETER OF PIPE PER 24 HOURS FOR SANITARY SEWERS.
5. DEFLECTION AND INFILTRATION TESTS SHALL BE PERFORMED PER NYS PLUMBING CODES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED RIM ELEVATIONS IN RELATION TO FINISHED GRADES PRIOR TO INSTALLATION.
7. PIPE CONNECTIONS TO SANITARY SEWER MANHOLES SHALL CONFORM TO THE LATEST A.S.T.M. C-923 ("RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPE").
8. ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC SDR-35 AND SHALL CONFORM TO THE LATEST A.S.T.M. D-3034.
9. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF TRENCH SHEETING OR SHORING REQUIRED AS PER THE LATEST O.S.H.A. STANDARDS, OR FOR WORKER SAFETY AND PROTECTION TRENCH AREAS.
10. COMPRESSION GASKETS FOR HUB AND SPIGOT PIPE AND FITTINGS SHALL CONFORM TO THE LATEST ASTM C 564 AND SHALL BE COMPRESSED WHEN THE PIPE IS FULLY INSERTED.
11. JOINTS BETWEEN DIFFERENT PIPE MATERIALS SHALL BE MADE WITH AN INSERTA-TEE (OR APPROVED EQUAL) CONNECTION WITH AN ELASTOMERIC SEAL CONFORMING TO THE LATEST ASTM C 425, ASTM C 443, ASTM C 564, ASTM C 1173, ASTM D 1869, ASTM F 477, CAN/CSA A257.3M, OR CAN/CSA B602M.
12. THE FOLLOWING TYPES OF JOINTS AND CONNECTIONS SHALL BE PROHIBITED: CEMENT OR CONCRETE JOINTS, MASTIC OR HOT-POUR BITUMINOUS JOINTS, ELASTOMERIC ROLLING O-RING JOINTS, SOLVENT-CEMENT JOINTS, OR SADDLE-TYPE FITTINGS.

TESTING SPECIFICATIONS

1. DEFLECTION TEST
   a. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE IN CONFORMANCE WITH THE LATEST 10-STATE (G.L.U.M.R.B) STANDARDS.
   b. THE DEFLECTION TEST SHALL NOT BE CONDUCTED UNTIL THE FINAL BACKFILL OVER THE PIPE HAS BEEN IN PLACE FOR AT LEAST 30 DAYS.
   c. NO PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT. IF DEFLECTION EXCEEDS 5 PERCENT, REPLACEMENT SHALL BE ACCOMPLISHED AS PER APPROVED DETAILS AND SPECIFICATIONS, AND THE DEFLECTION TEST RE-PERFORMED.
   d. THE RIGID BALL OR MANDREL USED FOR THE DEFLECTION TEST SHALL HAVE A DIAMETER OF NOT LESS THAN 95 PERCENT OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE (DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION OR APPENDIX OF THE CUT SHEET SUPPLIED BY THE PIPE MANUFACTURER). THE DEFLECTION TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
2. HYDROSTATIC TEST
   a. AN EXFILTRATION (OR INFILTRATION TEST DEPENDING ON LOCATION OF THE GROUNDWATER TABLE) SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET (600 mm.) IN CONFORMANCE WITH THE LATEST 10-STATE (G.L.U.M.R.B) STANDARDS.
   b. THE SYSTEM OPENINGS SHALL BE CLOSED, FILLED WITH WATER, AIR PURGED, THEN REFILLED WITH WATER. FOLLOWING REFILL THE WATER SUPPLY SHALL BE DISCONNECTED AND THE SYSTEM JOINTS INSPECTED FOR LEAKS.
   c. MAXIMUM ALLOWABLE LEAKAGE IS 100 GALLONS PER INCH OF NOMINAL PIPE SIZE PER MILE OF PIPE PER 24-HOUR DAY (9.2 LITRES PER MILLIMETER OF NOMINAL PIPE SIZE PER KILOMETER OF PIPE PER 24-HOUR DAY).
   d. DUCTILE IRON PIPING SHALL BE TESTED IN CONFORMANCE WITH AWWA C600, "HYDROSTATIC TESTING" SECTION USING A TEST PRESSURE OF AT LEAST 10 PSIg (69 kPa).
3. AIR TEST
   a. AS A MINIMUM, THE AIR TEST SHALL CONFORM TO THE LATEST ASTM C-828 FOR CLAY PIPE, THE LATEST ASTM C 924 FOR CONCRETE PIPE, THE LATEST ASTM F-1417 FOR PLASTIC PIPE, OR FOR OTHER MATERIALS AS DIRECTED BY THE REGULATORY AGENCY.
   b. AIR TESTING OF ALL NEW CONCRETE MANHOLES SHALL CONFORM TO THE LATEST ASTM C-1244.



SECTION

UTILITY TRENCH DETAIL (B)

SCALE : 3/4" = 1'-0"

NOTES:

1. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF TRENCH SHEETING OR SHORING REQUIRED AS PER THE LATEST O.S.H.A. STANDARDS, OR FOR WORKER SAFETY AND PROTECTION TRENCH AREAS. THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER SHALL DESIGN, OBSERVE THE INSTALLATION, AND APPROVE THE TRENCH SHIELDING DURING TRENCH OPERATIONS.
2. SELECT FILL (N.Y.S.D.O.T. ITEM 304.12) IS REQUIRED FOR FULL DEPTH UNDER DRIVEWAYS, ROAD CROSSINGS, AND IF THE 45° LINE SHOWN ABOVE INTERCEPTS THE TRENCH ABOVE THE PIPE ZONE.
3. IF SOFT MATERIALS OF POOR LOAD-BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVED BY EXCAVATING A MINIMUM DEPTH EQUAL TO TWO PIPE DIAMETERS AND BACKFILLING UP TO THE PIPE INVERT WITH PIPE BEDDING AND COMPACTING TO 95% DENSITY.

STATE OF NEW YORK
ANDREW V. TERRACCIANO
080634
LICENSED PROFESSIONAL ENGINEER

SUTTON architecture
"Design2Build"

5409 Main Street (Second Floor)
Williamsville, NY 14221 (716)
932-7156 Fax 932-7873

Job Number:
18-461

Proposed Renovation For:

Fedder Lofts, LLC

57 Tonawanda Street
Buffalo, NY

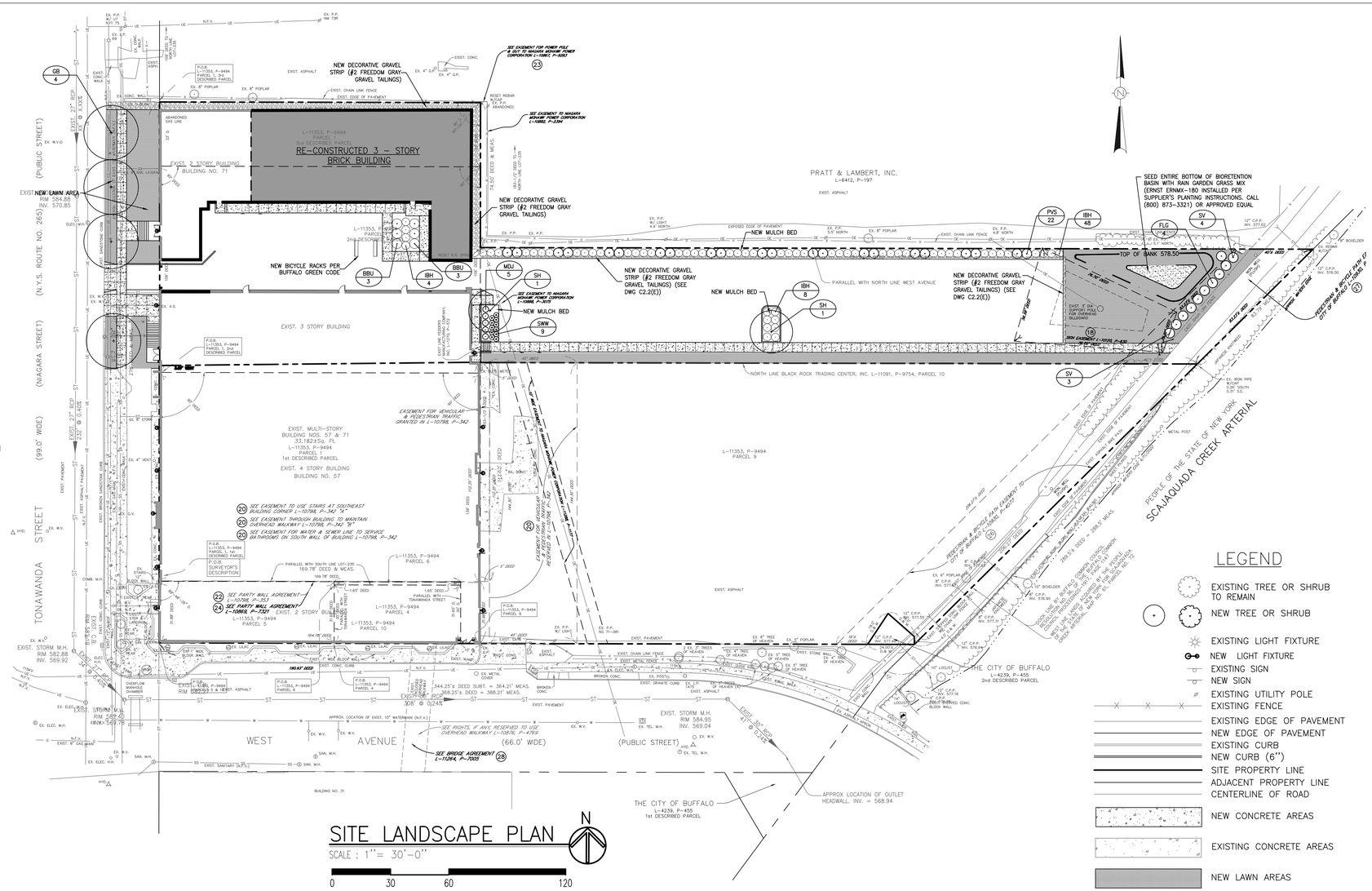
No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

Title:
UTILITY DETAILS

Drawn By: DAS
Date: 5-26-22
Checked: AVT
Scale: AS NOTED
Sheet No.: C-3.2

LANDSCAPE NOTES

1. 1. THE CONTRACTOR SHALL PROVIDE MAINTENANCE INCLUDING FERTILIZING, RE-SEEDING, AND WATERING AS REQUIRED DURING LANDSCAPE INSTALLATION AND PLANTING FOR A MINIMUM PERIOD OF 12 MONTHS FROM PLANTING DATE.
2. THE CONTRACTOR SHALL SCARIFY ALL NEW LANDSCAPE BEDS PRIOR TO SEEDING. REMOVE DEBRIS AND ROCKS TO 24" DEPTH PRIOR TO APPLYING TOPSOIL. LIME SOIL AS NECESSARY TO A pH OF 6.5. FERTILIZE WITH 850 lbs. OF 5-10-10 OR EQUIVALENT PER ACRE (20 lbs. PER EVERY 1000 SQ. FT.). ALL PROPOSED LANDSCAPE BEDS SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND POOR UNSUITABLE SOILS TO A DEPTH OF 24" AND BACKFILLED WITH TOPSOIL AND THE PLANTING MIXTURE AS SPECIFIED IN THE DETAILS.
3. THE CONTRACTOR SHALL ERECT TEMPORARY CONSTRUCTION FENCING AROUND ALL EXISTING TREES TO REMAIN WITHIN THE PROJECT LIMITS TO PROTECT FROM SITE WORK DISTURBANCE.
4. BURLAP MESH MAY BE USED TO COVER SEEDING ON ANY SLOPE EMBANKMENTS STEEP ENOUGH TO IMPEDE THE ESTABLISHMENT OF LAWN AREAS.
5. UNLESS RECOMMENDED OTHERWISE BY THE SEED VENDOR OR THE LANDSCAPE CONTRACTOR, PERMANENT GRASS SEEDING SHALL CONSIST OF A MIXTURE OF THE FOLLOWING:
   - KENTUCKY BLUEGRASS = 25% BY WEIGHT (98% MIN. PURITY: 85% MIN. GERMINATION)
   - PENN LAWN RED FESCUE = 25% BY WEIGHT (95% MIN. PURITY: 80% MIN. GERMINATION)
   - TRIPLE CROWN PERENNIAL RYE = 50% BY WEIGHT (95% MIN. PURITY: 90% MIN. GERMINATION)
6. HAND-BROADCASTING OR HYDRO-SEEDING AND HYDRO-MULCHING SHALL BE USED TO ESTABLISH ALL NEW LAWN AREAS. IF HAND-BROADCASTING, SEW SEED AT A RATE OF 5 lbs. PER 1000 SQ. FT. RAKE SEED INTO TOP 1/8" OF TOPSOIL, ROLL, AND WATER WITH FINE MIST. WATER SEED AS RECOMMENDED BY SEED VENDOR. UNIFORMLY SPREAD 2 INCHES OF STRAW MULCH OVER ENTIRE SEEDED AREA, AT THE RATE OF 2 TONS PER ACRE, IMMEDIATELY AFTER ROLLING AND WATERING SEEDED AREAS. REMOVE ANY WIND-SWEPT MULCH PILES AS NECESSARY TO PREVENT DAMAGE TO GRASS.
7. LIMIT SOIL PLACEMENT OVER EXISTING TREE AND SHRUB ROOTS TO A MAXIMUM OF 3 INCHES. IN EXPOSED ROOT AREAS WOOD MULCH SPREAD TO A DEPTH OF 4 INCHES SHALL BE USED TO PREVENT SOIL COMPACTION OVER THE ROOT SYSTEM.
8. TOPSOILING AND SEEDING, HYDROSEEDING, OR SODDING SHALL TAKE PLACE WITHIN 24 HOURS OF FINAL GRADING. SEED SHALL NOT BE BROADCAST DURING CONDITIONS OF HIGH WIND OR EXCESSIVE MOISTURE.
9. FERTILIZERS SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS REQUIRED BY THE MANUFACTURER. FERTILIZERS SHALL BE COMPLETELY WORKED INTO THE SOIL IMMEDIATELY FOLLOWING APPLICATION TO LIMIT EXPOSURE TO STORMWATER RUNOFF. FERTILIZERS SHALL BE STORED IN A COVERED SHED AND PARTIALLY USED BAGS SHALL BE TRANSFERRED TO A SECURELY-SEALED BIN TO AVOID SPILLS.
10. MOW NEWLY SEEDED AREAS FOR THE FIRST THREE (3) TIMES. AT EACH MOWING CUT TO A HEIGHT OF 2 INCHES AFTER GROWTH HAS REACHED APPROXIMATELY 3-½ INCHES. APPLY WEED AND FEED AS DIRECTED ON MANUFACTURER'S APPLICATION INSTRUCTIONS AFTER THE SECOND MOWING.
11. ALL NEW LAWN AREAS SHALL HAVE A 6 INCH MINIMUM LAYER OF TOPSOIL BEFORE SEEDING.
12. ANY EXISTING TREES TO REMAIN THAT ARE KILLED DUE TO ROOT DISTURBANCE SHALL BE REPLACED IN KIND BY THE CONTRACTOR.
13. ALL NEW LAWN AREAS SHALL BE COMPLETE IN COVERAGE AND VIGOROUS IN GROWTH IN ORDER TO BE ACCEPTABLE. REPAIR, RE-SEED, AND WATER NEW LAWN AREAS AS NECESSARY UNTIL THEY REACH THE LEVEL OF FINAL ACCEPTANCE.
14. ALL STICKS, RUBBISH, STONES, AND ANY DEBRIS COLLECTED DURING RAKING, MOWING, AND LAWN ESTABLISHMENT ACTIVITIES. DISPOSE OF AT AN APPROPRIATE OFF-SITE LOCATION PER LOCAL REGULATIONS.

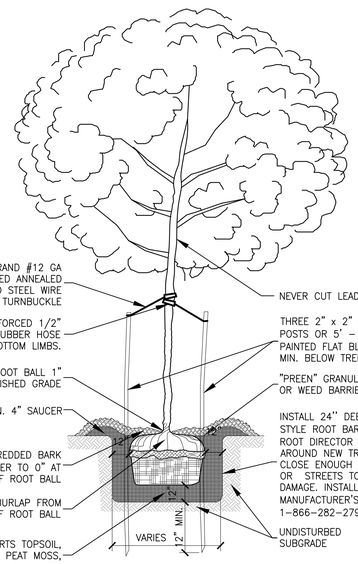


SITE LANDSCAPE PLAN

SCALE : 1"= 30'-0"

LEGEND

- EXISTING TREE OR SHRUB TO REMAIN
- NEW TREE OR SHRUB
- EXISTING LIGHT FIXTURE
- NEW LIGHT FIXTURE
- EXISTING SIGN
- NEW SIGN
- EXISTING UTILITY POLE
- EXISTING FENCE
- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB (6")
- SITE PROPERTY LINE
- ADJACENT PROPERTY LINE
- CENTERLINE OF ROAD
- NEW CONCRETE AREAS
- EXISTING CONCRETE AREAS
- NEW LAWN AREAS
- EXISTING LAWN AREAS



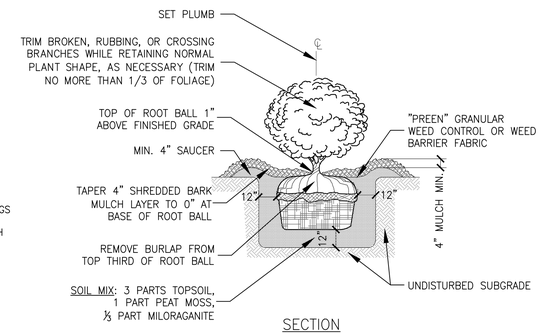
SECTION

TREE PLANTING DETAIL B

SCALE : 1/4" = 1'-0"

NOTES:

1. AT NO TIME SHOULD THE TOP OF THE ROOT BALL BE BELOW GROUND LEVEL.
2. WATERING: WATER THOROUGHLY AT PLANTING TIME, THEN EVERY DAY FOR 1 WEEK, THEN EVERY 2-3 DAYS FOR 5 WEEKS, THEN, ONCE PER WEEK AFTERWARDS AS NECESSARY.



SECTION

SHRUB PLANTING DETAIL A

SCALE : 1/4" = 1'-0"

NOTES:

1. AT NO TIME SHOULD THE TOP OF THE ROOT BALL BE BELOW GROUND LEVEL.
2. WATERING: WATER THOROUGHLY AT PLANTING TIME, THEN EVERY DAY FOR 1 WEEK, THEN EVERY 2-3 DAYS FOR 5 WEEKS, THEN, ONCE PER WEEK AFTERWARDS AS NECESSARY.

PLANT MATERIAL LIST

BBU	6	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	#5 CONTAINER	POTTED	PLANT 5'-0" O.C. PLANT AS INDICATED
FLG	4	FORSYTHIA X INTERMEDIA 'SPECTABILIS'	SHOWY BORDER FORSYTHIA	4' MIN HT	B.B.	PLANT 5'-0" O.C. PLANT AS INDICATED
IBH	60	ILEX GLABARA 'DENSA'	DENSA INKBERRY HOLLY	#5 CONTAINER	POTTED	PLANT 5'-0" O.C. PLANT AS INDICATED
MDJ	5	JUNIPERUS SABINA 'MANARD'	MOOR DENSE JUNIPER	#5 CONTAINER	POTTED	PLANT 3'-0" O.C. PLANT AS INDICATED
PVS	22	PANCIUM VIRGATUM	SWITCH GRASS	#5 CONTAINER	POTTED	PLANT AS INDICATED
SWW	9	WEIGELA FLORIDA 'BAKRASPIWI'	SPILLED WINE WEIGELA	#5 CONTAINER	POTTED	PLANT 3'-0" O.C. PLANT AS INDICATED
GB	4	GINKO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINKO	2½" TO 3" CAL.	B.B.	NURSERY GROWN UNIFORM SPECIMEN. SPACE AS INDICATED
SH	2	GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE'	SKYLINE HONEYLOCUST	2½" TO 3" CAL.	B.B.	NURSERY GROWN UNIFORM SPECIMEN. SPACE AAS INDICATED
SV	7	SYRIGA VULGARIS	COMMON LILAC	3' MIN HT	B.B.	PLANT 5'-0" O.C. PLANT AS INDICATED

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080634
LICENSED PROFESSIONAL ENGINEER

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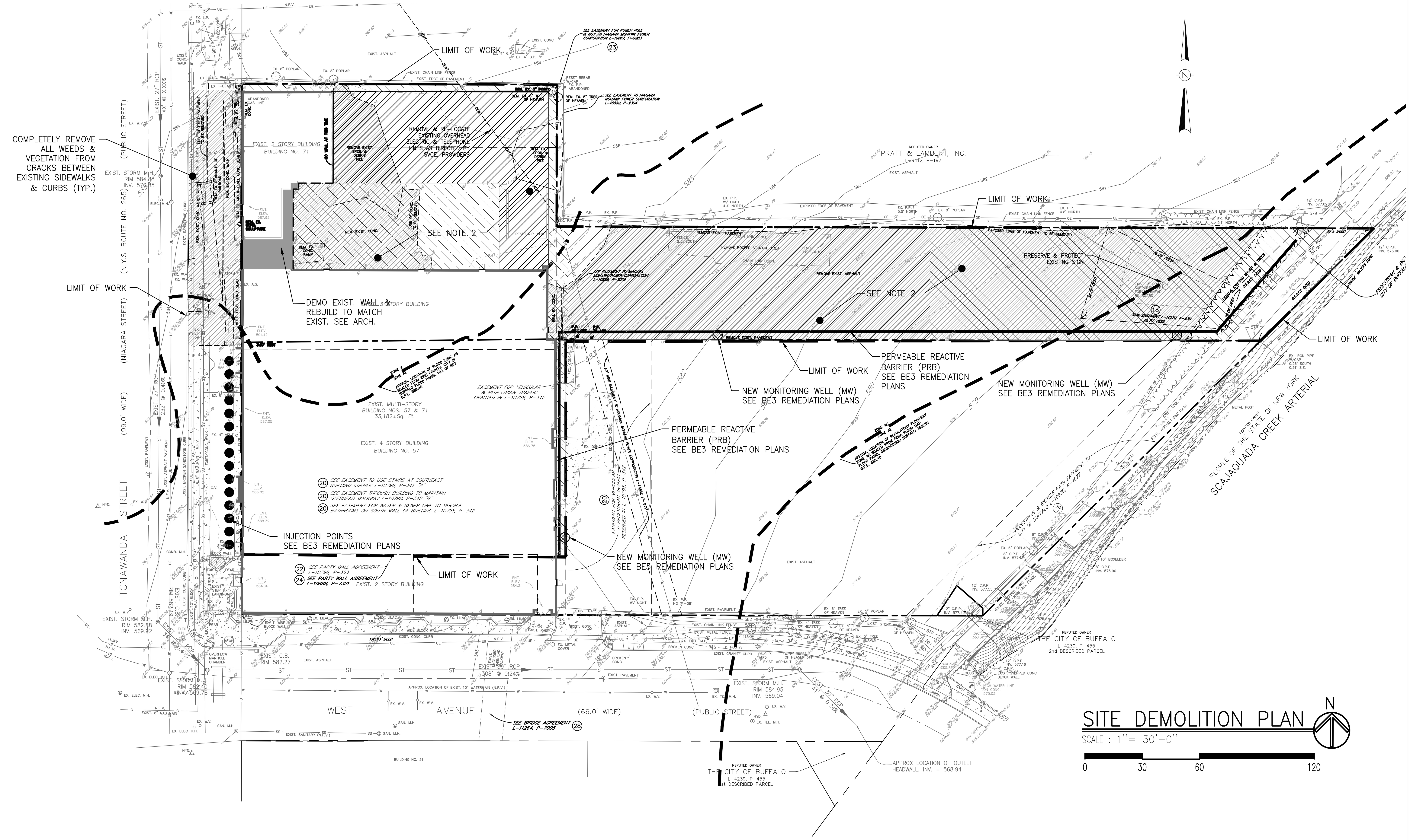
No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

Title: SITE LANDSCAPE PLAN

Drawn By: DAS	Sheet No.: C-4.0
Date: 5-26-22	
Checked: AVT	
Scale: AS NOTED	

DEMOLITION NOTES

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS FOR CLEARING, SOIL EROSION PROTECTION, AND DISPOSING OF DEBRIS FROM SITE.
2. THE CONTRACTOR SHALL FOLLOW THE CONTAMINATED SOIL EXCAVATION, REMOVAL, & CLEAN FILL REPLACEMENT PLAN ISSUED BY BE3CORP. CLEAN FILL SHALL BE TESTED FROM FINISHED GRADE DOWN TO 2 FEET FOR THE FULL LIST OF BCP CHEMICALS AND INCLUDING NEW EMERGING CONTAMINANTS. CLEAN SOURCE ("VIRGIN") FILL MATERIAL SHALL BE SAMPLED OFF SITE BEFORE BEING EXCAVATED AND TRANSPORTED TO THE PROJECT SITE TO BE VERIFIED AS CLEAN FILL.
3. REMOVAL AND REPLACEMENT OF CONTAMINATED FILL ADJACENT TO THE EXISTING BUILDING SHALL BE DONE IN PHASES SO THAT EXISTING BUILDING FOUNDATIONS ARE NOT EXPOSED TO COLLAPSE.
4. THE CONTRACTOR SHALL COORDINATE THE REMOVAL, RELOCATION, OR RE-ROUTING OF ANY UTILITIES WITH EACH RESPECTIVE UTILITY COMPANY. NOTIFY UTILITY COMPANIES OR AGENCIES AT LEAST 72 HOURS PRIOR TO THE START OF WORK.
5. THE CONTRACTOR SHALL MAINTAIN ACCESSIBLE PASSAGEWAYS FOR TRAFFIC AND PEDESTRIANS TO EXISTING ADJACENT RESDIENCES AND BUSINESSES WHICH WILL REMAIN IN OPERATION THROUGHOUT THE DURATION OF THE CONSTRUCTION.
6. THE CONTRACTOR SHALL FOLLOW ALL SOIL PREPARATION AND FOUNDATION CONSTRUCTION RECOMMENDATIONS AS STATED IN THE GEOTECHNICAL ENGINEERING REPORT.
7. EXISTING PAVEMENT TO BE SAW-CUT AND REMOVED SHALL BE SAW-CUT ONLY TO THE DEPTH OF THE PAVEMENT AND NOT DEEPER TO AVOID INTERFERENCE WITH EXISTING UNDERGROUND UTILITIES. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THE SURVEY OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION. THE DESIGN ENGINEER AND THE RESPECTIVE UTILITY COMPANIES SHALL BE IMMEDIATELY NOTIFIED BY THE INSTALLATION CONTRACTOR UPON DISCOVERY OF ANY SUCH ABOVEGROUND OR UNDERGROUND UTILITIES NOT SHOWN ON THE SURVEY. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED UTILITIES ARE IDENTIFIED AND THE DESIGN ENGINEER ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.
8. THE DESIGN ENGINEER SHALL BE IMMEDIATELY CONTACTED UPON DISCOVERY OF ANY ABOVEGROUND OR BELOW GROUND OBJECTS NOT SHOWN ON THE BACKGROUND SURVEY THAT ARE UNCOVERED DURING EXCAVATION OR CONSTRUCTION (BUILDING FOUNDATIONS, BURIED VAULTS, TREES, SIDEWALKS, PAVEMENT, RAILINGS, SIGNS, STOCKPILES, STUMPS, OR SIMILAR) WHICH WILL INTERFERE OR CONFLICT WITH ANY PROPOSED WORK SHOWN ON THESE PLANS. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED OBJECTS ARE IDENTIFIED AND THE DESIGN ENGINEER ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.
9. THE CONTRACTOR SHALL REMOVE ALL VISIBLE AND PARTIALLY BURIED DEBRIS PILES FROM AREAS TO BE DEVELOPED OR GRADED AND DISPOSE OF AT AN APPROPRIATE OFF-SITE LOCATION IN COMPLIANCE WITH AUTHORITIES HAVING JURISDICTION.
10. ALL ABANDONED UTILITIES SHALL BE CAPPED, SHUT OFF AT MAIN, AND FILLED (SEE DETAIL A ON THIS SHEET).
11. ANY UTILITY LINES NO LONGER IN USE (EITHER SHOWN ON THIS SHEET OR DISCOVERED IN THE FIELD) SHALL BE COMPLETELY REMOVED IF THEY ARE IN CONFLICT WITH ANY NEW UTILITY OR STRUCTURE.
12. ANY CAVITIES OR TRENCHES REMAINING FROM EXCAVATED FOOTINGS, FOUNDATION WALLS, PIPELINES, BASEMENTS, AND UNDERGROUND TANKS SHALL BE BACKFILLED WITH FLOWABLE FILL TO THE FROST LINE, AND TYPE 2 CRUSHER RUN STONE (NYSDOT ITEM 304.12) ABOVE THE FROST LINE, COMPACTED TO 95% DENSITY (IN 6" MAXIMUM LIFTS).
13. PROVIDE TEMPORARY SNOW-FENCING AROUND ALL EXISTING TREES, SHRUBS, OR LANDSCAPING TO REMAIN.
14. ALL LITTER AND DEBRIS SHALL BE SWEPT UP AND REMOVED FROM PAVED AREAS RATHER THAN HOSING OR WASHING INTO STORM DRAINS OR SWALES.
15. WASTE FROM DEMOLITION ACTIVITIES SHALL BE CONTAINED TO PREVENT RELEASE OF DUST AND DEBRIS BEFORE THE WASTE IS REMOVED FROM THE SITE. COLLECTED WASTE ON SITE SHALL ALSO BE STORED SUCH THAT IT PREVENTS THE RELEASE OF DUST AND DEBRIS.
16. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR NOTIFYING UFPO FOR UNDERGROUND UTILITY LOCATION PRIOR TO EXCAVATION OR CONSTRUCTION. UNDERGROUND UTILITY LOCATION DETERMINATION BY HAND-DIGGING OR VACUUM EXCAVATION MAY BE NECESSARY IF DIRECTED BY RESPECTIVE UTILITY SERVICE AGENCIES.
17. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND COMPLIANCE WITH THE LATEST OSHA STANDARDS OR INDUSTRIAL CODE RULE 57 DURING CONSTRUCTION.
18. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR THE REMEDIATION OF ASBESTOS, LEAD, MERCURY, MOLD, RADON, OR RODENT ABATEMENT PRIOR TO DEMOLITION OF ANY PORTION OF OR WITHIN EXISTING BUILDINGS.
19. EXCAVATION AND CONSTRUCTION OPERATIONS SHOULD BE SCHEDULED TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ONE TIME. BUFFER AREAS OF EXISTING VEGETATION TO BE REMOVED SHOULD BE LEFT IN PLACE AS LONG AS POSSIBLE WHERE PRACTICAL.
20. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK, THE COUNTY OF ERIE, AND THE CITY OF BUFFALO.



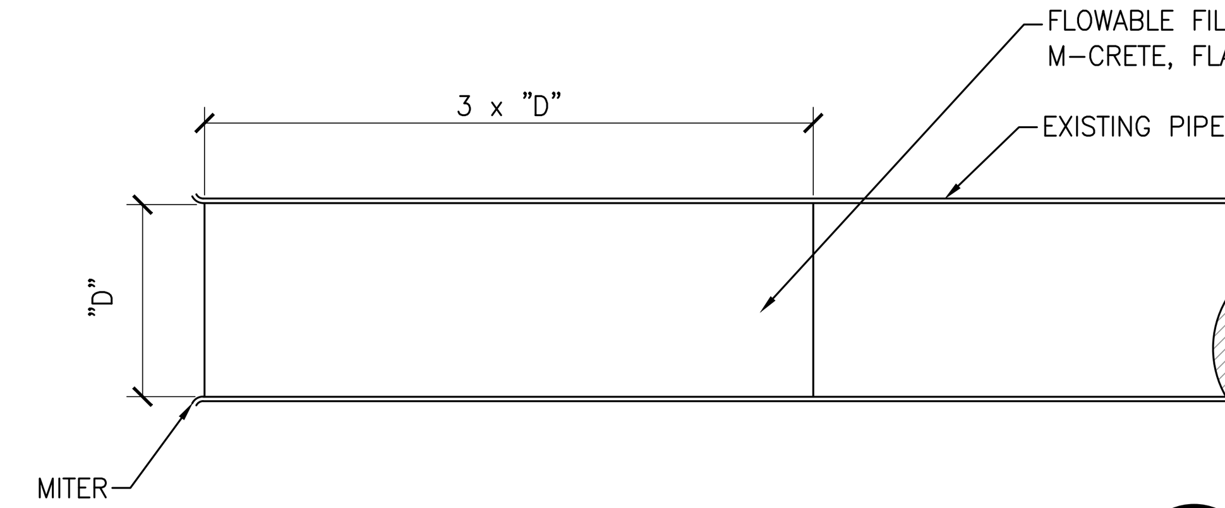
SITE DEMOLITION PLAN

SCALE : 1"= 30'-0"

0 30 60 120

LEGEND

- PROPERTY LINE
- EX. EDGE OF PVMNT. TO REMAIN
- EX. EDGE OF PVMNT. TO BE REMOVED
- NEW EDGE OF PVMNT.
- EXISTING CURB TO REMAIN
- EXISTING CURB TO BE REMOVED
- NEW CURB
- SAW-CUT LINE
- EXISTING PAVEMENT AREAS TO BE REMOVED
- SITE BOUNDARY – 71 TONWANDA
- REMOVE AND REPLACE TOP 1' OF EXISTING ASPHALT HARDSCAPE WITH 4" ASPHALT OVER 8" CLEAN STONE
- REMOVE TOP 2' OF SOIL/ASPHALT AND REPLACE WITH 2' OF CLEAN SOIL/STONE WITH 4" OF TOP SOIL AT SURFACE OF REPLACEMENT FILL, PLUS SEED
- REBUILT BUILDING WITH NEW CONCRETE FOUNDATION
- NEW CONCRETE HARDSCAPE (PATIOS AND SIDEWALKS)
- GROUNDWATER TREATMENT INJECTION POINTS
- NEW MONITORING WELLS
- PERMEABLE REACTIVE BARRIER (PRB)
- EXISTING TREE OR SHRUB TO REMAIN
- EXISTING TREE OR SHRUB TO BE REMOVED



PIPE ABANDONMENT DETAIL (A)

SCALE : 1" = 1'-0"

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932-7156 Fax 932-7873

Job Number: 18-461

Proposed Renovation For:

Fedder Lofts, LLC

57 Tonawanda Street
Buffalo, NY

No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

Title: SITE DEMOLITION PLAN

Drawn By: DAS	Sheet No.: C-5.0
Date: 5-26-22	
Checked: AVT	
Scale: AS NOTED	

EROSION CONTROL NOTES:

1. GRADING, TOPSOILING, AND STABILIZING SECTIONS SHALL BE COMPLETED BEFORE EXCAVATION STARTS ON OTHER SECTIONS, IN ORDER NOT TO LEAVE ANY AREAS EXPOSED TO WIND AND RAIN EROSION FOR LONGER DURATION THAN NECESSARY.
2. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER ON A DAILY BASIS. ABSOLUTELY NO CONSTRUCTION MATERIALS SHALL BE BURIED ON SITE.
3. ALL VEHICLES ON SITE SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE FOR THE ENTIRE DURATION OF CONSTRUCTION. ANY PETROLEUM PRODUCTS USED SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. SPILL KITS SHALL BE INCLUDED WITH ANY FUELING SOURCES AND MAINTENANCE ACTIVITIES AS NECESSARY.
4. ALL PAINT CONTAINERS OR CURING COMPOUNDS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT SHALL BE PROPERLY DISPOSED OF IN CONFORMANCE TO MANUFACTURER'S INSTRUCTIONS.
5. WHEN ACTIVITIES TEMPORARILY CEASE DURING CONSTRUCTION, SOIL STOCKPILES AND ANY EXPOSED SOILS SHALL BE STABILIZED BY MULCH OR COVERED WITH TARPS NO MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED.
6. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES SHOWN ON THIS PLAN ON A DAILY BASIS AND AFTER RAIN STORMS. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL EROSION CONTROL DEVICES AS SPECIFIED IN THIS PLAN AND ON THE EROSION CONTROL DETAILS.
7. TOPSOIL STOCKPILES SHALL NOT BLOCK DRAINAGE FLOWS DURING CONSTRUCTION. STOCKPILES SHALL NOT BE LOCATED NEAR SLOPES, ROADWAYS, SWALES, DRAINAGE INLETS, OR BODIES OF WATER. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING, OR ELSE THE ENTIRE STOCKPILE SHALL BE COVERED WITH TARPS AND SANDBAGS.
8. THE CONTRACTOR SHALL PREVENT TRACKING OR FLOWING OF MUD INTO STREETS OR AREAS OUTSIDE OF CONSTRUCTION LOCATION.
9. ALL WATER PUMPED FROM EXCAVATIONS SHOULD BE DIRECTED TO A SEDIMENT TRAP, SEDIMENT BASIN, OR FILTRATION DEVICE SHOWN ON THE EROSION CONTROL DETAILS.
10. ALL CATCH BASIN SUMPS SHALL BE CLEANED OUT AND VACUUMED AND SOIL SEDIMENTS SHALL BE DISPOSED OF AT AN APPROPRIATE OFFSITE LOCATION.
11. ALL CHLORINATED WATER USED FOR FLUSHING WATERLINES SHALL BE DISCHARGED TO THE SANITARY SEWER AND NEVER TO ANY STORM SEWER, CATCH BASIN, SWALE, OR POND.
12. ALL PORTABLE TOILETS SHALL BE LOCATED AWAY FROM GUTTERS, CATCH BASINS, STORM SEWERS, AND WATERWAYS. PORTABLE TOILETS SHALL BE PLACED ON A FLAT, STABLE GROUND SURFACE NOT PRONE TO FLOODING. ALL PORTABLE TOILETS SHALL BE ANCHORED TO PREVENT BLOWING OVER DURING WINDSTORMS.
13. ANY DETERGENTS OR ACID CLEANERS WASHES USED TO CLEAN OR RINSE CONCRETE, STUCCO, MASONRY, ETC. SHALL NEVER BE DISCHARGED TO ANY STORM SEWER, CATCH BASIN, SWALE, OR POND.
14. AVOID STORING PETROLEUM PRODUCTS ON SITE IF POSSIBLE. IF NOT POSSIBLE, STORE AWAY FROM CATCH BASINS OR DRAINAGE WAYS.
15. AVOID ON-SITE STORAGE OF PESTICIDES, FERTILIZERS, AND HERBICIDES. IF UNAVOIDABLE, ALL CHEMICALS SHALL BE STORED IN ORIGINAL PACKAGES IN A SEPARATELY DESIGNATED COVERED CONTAINMENT AREA.
16. USE CLEAN OR RECYCLED WATER WHEN SPRINKLING SOIL FOR DUST CONTROL.
17. UNDER NO CIRCUMSTANCES SHALL CONCRETE TRUCK WASH WATER BE ALLOWED TO BE DISCHARGED OR DUMPED ANYWHERE ON THE CONSTRUCTION SITE. ALL EXCESS CONCRETE OR WASH WATER SHALL BE DISPOSED AT AN APPROPRIATE OFFSITE LOCATION (SUCH AS A DESIGNATED LANDFILL) AS DIRECTED BY LOCAL AUTHORITIES.
18. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC WILL IMMEDIATELY RECEIVE TEMPORARY SEEDING WITH ANNUAL OR PERENNIAL RYE GRASS AT 30 lbs. PER ACRE, FOLLOWED BY MULCHING WITH STRAW AT A RATE OF 2 TO 2½ TONS PER ACRE.
19. SECURE OPEN BAGS OF CEMENT AND KEEP CEMENT POWDER AWAY FROM STREETS, CATCH BASINS, AND SWALES. PROTECT CONSTRUCTION MATERIALS FROM RAINFALL AND RUNOFF BY STORING UNDER COVER. AVOID STORING MATERIALS NEAR CATCH BASINS, SWALES, OR STORM SEWERS.
20. ANY FERTILIZER SPILLED ONTO IMPERVIOUS SURFACES SUCH AS PARKING LOTS, ROADWAYS, AND SIDEWALKS SHALL BE IMMEDIATELY CONTAINED AND REMOVED, ELSE LEGALLY RE-APPLIED PER THE NOTES IN THE SITE LANDSCAPE PLAN.
21. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK, THE COUNTY OF ERIE, AND THE CITY OF BUFFALO.

EROSION CONTROL SEQUENCE

*** THE SEQUENCE BELOW IS INTENDED TO BE A GENERAL GUIDELINE FOR IMPLEMENTATION OF EROSION AND SEDIMENTATION PREVENTION DEVICES ONLY. SPECIFIC CONSTRUCTION TECHNIQUES, MEANS, METHODS, AND SCHEDULING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND OWNER.

① OBTAIN ALL BUILDING PERMITS, INCLUDING CLEARING, STRIPPING, AND GRUBBING PERMITS.

② OBTAIN A DUMPSTER AND A DEBRIS DISPOSAL PERMIT AS NECESSARY.

③ FLAG CLEARING LIMITS AS SHOWN ON THE SITE DEMOLITION PLAN.

④ (E C-5.2) INSTALL THE TEMPORARY CONSTRUCTION ENTRANCE WHERE SHOWN ON THE EROSION CONTROL PLAN AS PER THE INSTALLATION INSTRUCTIONS ON THE EROSION CONTROL DETAILS. CLEAR, STRIP, AND GRUB ONLY ENOUGH AREA REQUIRED TO INSTALL THE TEMPORARY CONSTRUCTION ENTRANCE PROPERLY.

⑤ (C C-5.2) INSTALL THE TEMPORARY SILT FENCE OR FILTER SOCK AT THE BOTTOM OF FUTURE FILL SLOPES WHERE SHOWN ON THE EROSION CONTROL PLAN AS PER THE INSTALLATION INSTRUCTIONS ON THE EROSION CONTROL DETAILS. CLEAR ONLY ENOUGH AREA REQUIRED TO INSTALL THE SILT FENCING PROPERLY.

⑥ CLEAR, GRUB, AND STRIP THE SITE AS SHOWN ON THE SITE DEMOLITION PLAN. STOCKPILE ALL TOPSOIL AS DIRECTED ON THE EROSION CONTROL PLAN.

⑦ ESTABLISH ANY TEMPORARY STORMWATER DIVERSIONS AS NECESSARY. STABILIZE ALL DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS OF THE LAST DISTURBANCE ACTIVITY IN EACH AREA.

⑧ INSTALL TEMPORARY CONSTRUCTION LAY-DOWN AREA WHERE DIRECTED BY GENERAL CONTRACTOR. ADD COMPACTED PAVEMENT SUBBASE AND SURROUND BY TEMPORARY SILT FENCING DURING CONSTRUCTION OF BUILDING.

⑨ (B C-5.2) INSTALL ALL UTILITIES AND STRUCTURES, INCLUDING CATCH BASINS, CULVERTS, AND STORM SEWERS AS SHOWN ON THE SITE UTILITY AND DRAINAGE PLANS AND DETAILS. IMMEDIATELY INSTALL TEMPORARY CATCH BASIN INLET PROTECTION WHERE SHOWN ON THE EROSION CONTROL PLAN AS PER THE INSTALLATION INSTRUCTIONS ON THE EROSION CONTROL DETAILS.

⑩ TEMPORARY TRENCH BACKFILL STOCKPILES SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION USING TARPS, IF LEFT FOR LONG PERIODS OF TIME OR DURING RAIN STORMS. MINIMAL DISTURBANCE AROUND TRENCH AREAS SHALL BE MADE TO REMOVE AS LITTLE VEGETATION AS POSSIBLE FROM THE VICINITY OF THE TRENCH.

⑪ REMOVE SILT FENCING PRIOR TO PARKING LOT / CURB CONSTRUCTION AND FINAL GRADING. INSTALL STONE SUBBASE TO ALL PROPOSED PARKING AND BUILDING AREAS AND COMPACT AS SHOWN IN SPECIFICATIONS ON RESPECTIVE DETAILS AS SOON AS POSSIBLE FOLLOWING ROUGH GRADING AND COMPACTION OF SUBGRADE. IMPLEMENT DUST CONTROL MEASURES AS DIRECTED ON THE EROSION CONTROL PLAN NOTES.

⑫ CONSTRUCT ALL BUILDINGS AND ACCESSORY STRUCTURES.

⑭ (D C-5.2) COMPLETE FINAL GRADING AND TOPSOILING OF ENTIRE SITE. SEED OR HYDRO-SEED WITHIN 24 HOURS AFTER FINAL GRADING AND TOPSOILING. HYDRO-MULCH IMMEDIATELY FOLLOWING SEEDING OR HYDRO-SEEDING.

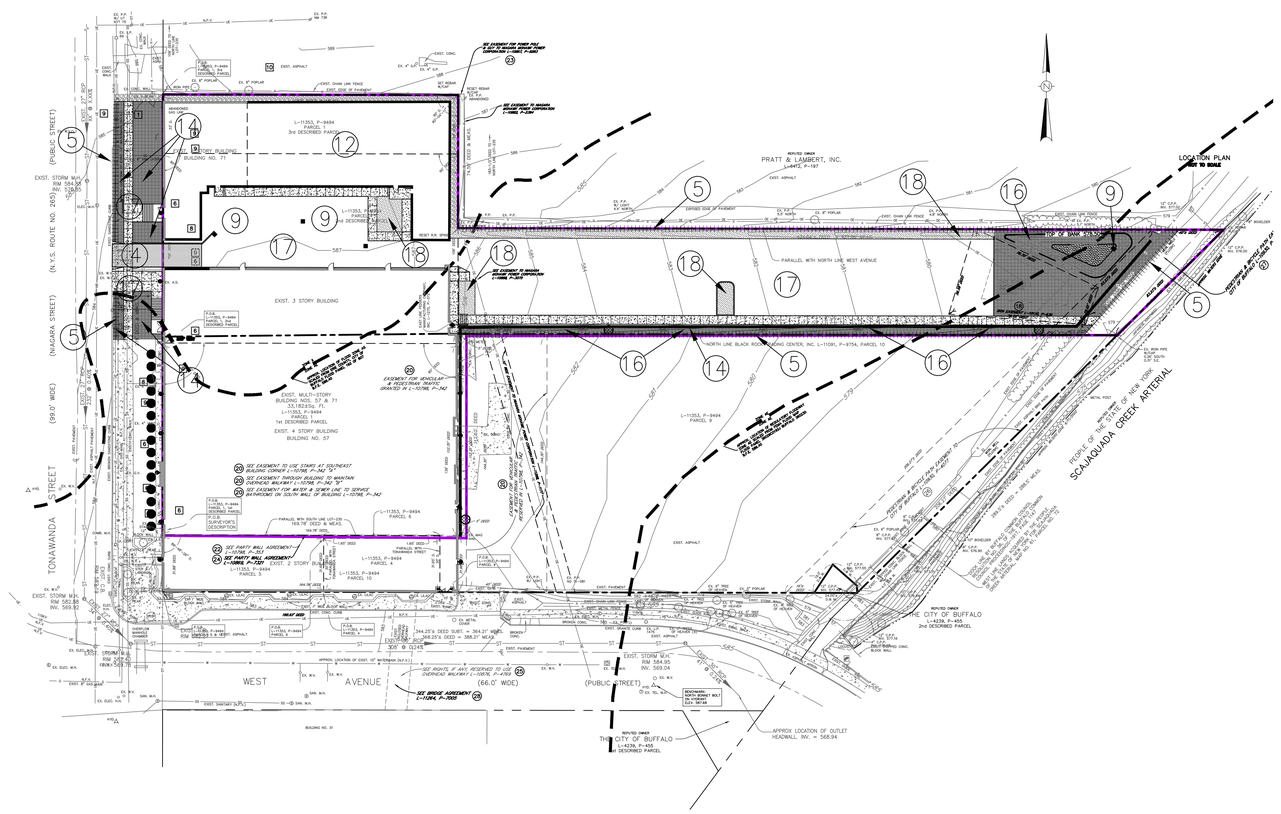
⑮ REMOVE TEMPORARY SILT FENCE AND PIPE INLET PROTECTION AFTER HYDRO-MULCHING IS COMPLETED.

⑯ (A C-5.2) INSTALL EROSION CONTROL BLANKET ON ALL BANKS AND SIDE SLOPES 3:1 AND STEEPER.

⑰ INSTALL ALL ASPHALT, GRAVEL, AND CONCRETE PAVEMENT WHERE SHOWN ON THE SITE LAYOUT AND DIMENSIONAL SITE PLAN AS PER THE SITE DETAILS.

⑱ INSTALL REMAINING LANDSCAPING (SHRUBS, TREES, AND MULCH) WHERE SHOWN ON THE SITE LANDSCAPE PLAN AS PER THE LANDSCAPE DETAILS.

⑲ WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETED AND SITE VEGETATION IS IN PLACE AND STABILIZED AS CONFIRMED BY THE DESIGNATED EROSION CONTROL INSPECTOR, REMOVE AND DISPOSE OF ANY REMAINING TEMPORARY EROSION CONTROL DEVICES AS DIRECTED IN THE MAINTENANCE INSTRUCTIONS ON EACH DEVICE'S RESPECTIVE DETAIL SHOWN ON THE EROSION CONTROL DETAILS.



EROSION CONTROL PLAN

SCALE : 1" = 40'-0"

0 40 80 160

N

LEGEND

- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB
- PROPERTY / R.O.W. LINES
- ADJACENT PROPERTY LINES
- TEMPORARY SILT FENCE
- 710 EXISTING CONTOUR LINES
- 710 PROPOSED CONTOUR LINES
- ST STORM SEWER
- EXISTING HYDRANT
- EXISTING CATCH BASIN
- NEW YARD DRAIN
- NEW LAWN AREAS TO BE SEEDED OR HYDRO-SEEDED THEN HYDRO-MULCHED
- NEW CRUSHED STONE/GRAVEL AREAS
- NEW TURF REINFORCEMENT MAT AREAS
- NEW MULCH BED AREAS

STATE OF NEW YORK ANDREW V. TERRACCIANO 080634 LICENSED PROFESSIONAL ENGINEER

SUTTON architecture "Design2Build"

5409 Main Street (Second Floor)
Williamsville, NY 14221 (716)
932-7156 Fax 932-7873

Job Number: 18-461

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57 Tonawanda Street Buffalo, NY

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WARNING:
It is a violation of Article 147, Section 7303 of the New York State Education Law for any person to alter an item, in any way, on this document, unless under the direction of a licensed Architect.

Title: EROSION CONTROL PLAN

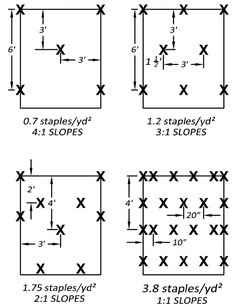
Drawn By: DAS
Date: 5-26-22
Checked: AVT
Scale: AS NOTED
Sheet No.: C-5.1

Slope Installation Guidelines:

These guidelines are recommendations only. Any questions with the installation should be confirmed with your local distributor.

1. *Dig a 6" by 6" trench both up-slope and down-slope of the area the matting is to be applied. Prepare the slope soil surface (raking, seeding and fertilizing).*
2. *Begin by placing the blanket a minimum of 12" down-slope of the up-slope trench. Secure the blanket at the bottom of the trench with staples placed 12" apart. Backfill and compact the trench. Apply seed, and fold the blanket over soil, secure with a row of staples placed 12" apart across the width of the blanket. (See Diagram A)*
3. *Roll the blanket vertically down the slope. Secure using the appropriate staple pattern below, specified by slope. (See Staple Patterns)*
4. *Parallel blankets must be overlapped by a minimum of 4", and secured with a row of staples placed approximately 3'-0" apart. (See Diagram B)*
5. *Additional vertical blankets can be joined using a minimum 4" overlapping or shingle style (See Diagrams C) in the direction of water flow. Connect the blankets by placing staples approximately 12" apart across the width of the blankets.*
6. *For maximum performance a check slot should be placed at 25'-40' intervals. Place a row of staples 4" apart along the entire width of the slope. A second row should be placed 4" below in a staggered pattern. Then continue with general installation. (See Diagrams D)*
7. *The end of blanket must be secured in a 6" x 6" trench with a row of staples placed at 12" intervals. (Diagram E)*

Staple Patterns:



Specifications and Equivalency:

All product material and performance specifications are available from East Coast Erosion Blankets via the product specification sheet. Utilization of a 11 gauge staple, a minimum 6" long by 1" crown, is recommended. The tightly compressed blankets are wrapped and include a product label, code and installation guide.

In addition to meeting all data available on the specification sheet, equivalent products shall meet the following requirements:

- *The product must be listed with the NTPEP database.*
- *The product must meet the Type 2.C specification requirements estabilished by the Erosion Control Technology Council (ECTC).*
- *The product must meet the Federal Highway Administrations's (FHWA) FP-03 Section 713.17 specification.*

Slope Installation Detail

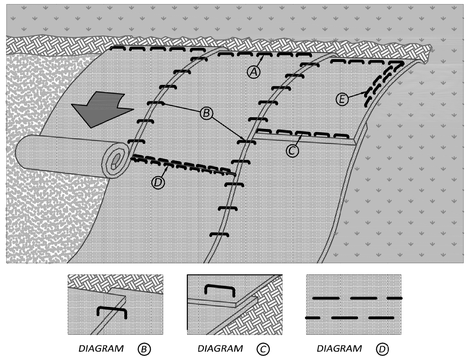
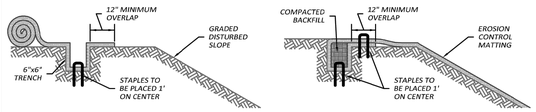
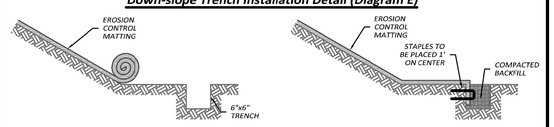


DIAGRAM (B) DIAGRAM (C) DIAGRAM (D)

Up-slope Trench Installation Detail (Diagram A)



Down-slope Trench Installation Detail (Diagram E)



Proud Member of: IECA Corporate Member, ECTC Erosion Control Technology Council, ASTM International, NAHB National Association of Home Builders

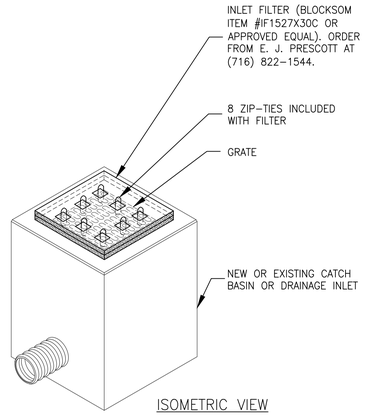
EROSION CONTROL BLANKET INSTALLATION (A)

SCALE : N.T.S.

EASTCOAST erosion blankets

443 Bricker Road Bernville, PA 19506
*Toll Free: 1-800-582-4005 * Phone: +1-610-488-8496 * Fax: +1-610-488-8494*

DRAWN BY: MR	DRAWING #: EC-SLOPE	REV. # 1	DATE: 1/2/09



ISOMETRIC VIEW

INSTALLATION INSTRUCTIONS:

**** INSTALLATION INSTRUCTIONS AND DIAGRAMS COME WITH INSTALLATION KIT, ZIP-TIES, AND FILTER PADS.

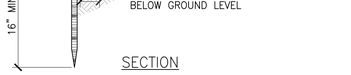
1. REMOVE SEDIMENT, DEBRIS, ICE, AND SNOW FROM THE CATCH BASIN GRATE SURFACE AND SURROUNDING AREAS.
2. PLACE FILTER OVER GRATE TO ENSURE FILTER EXTENDS AT LEAST 1 INCH BEYOND ALL SIDES OF THE CATCH BASIN GRATE.
3. PLACE FILTER OVER GRATE WITH NET SIDE FACING DOWN, EXTENDING BEYOND THE GRATE OPENING ON ALL SIDES.
4. INSTALL ZIP-TIES WITHOUT LIFTING GRATE COVER. LIFT FILTER SLIGHTLY TO SEE THE FIRST GRATE OPENING. PUSH POINTED END OF A SCREWDRIVER THROUGH FILTER TO CREATE A PILOT HOLE FOR THE FIRST ZIP TIE.
5. PUSH POINTED END OF ZIP-TIE THROUGH THE PILOT HOLE AND THROUGH THE FILTER. BEND THE LAST 3" OF ZIP-TIE ON ITSELF TO FORM A HOOK SHAPE. LOOP THE ZIP TIE UP UNDER THE GRATE BAR AND PUSH UP AND THROUGH THE FILTER THROUGH ADJACENT GRATE OPENING.
6. PUSH POINTED END OF THE ZIP-TIE INTO THE RECEIVING END. LEAVE ZIP TIE LOOSE UNTIL ALL 8 TIES ARE LOOPED THROUGH THE FILTER.
7. REPEAT STEPS 4 THROUGH 6 UNTIL ALL ZIP-TIES ARE INSTALLED LOOSELY. THEN PULL ALL 8 ENDS OF ZIP TIES TO HAND TIGHTEN AND ANCHOR FILTER TO GRATE

MAINTENANCE INSTRUCTIONS:

1. DURING RAIN EVENTS STORMWATER WILL BEGIN TO POND AROUND THE CATCH BASIN WHEN THE FILTER NEEDS CLEANING. CLEAN FILTER WHILE IT IS ATTACHED TO THE GRATE BY BRUSHING OR SWEEPING THE PAD WITH A BROOM OR ICE BRUSH UNTIL STORMWATER BEGINS DISCHARGING THROUGH THE FILTER AGAIN. THIS CAN BE DONE EVEN WHILE THE FILTER IS UNDER WATER.
2. THE ABOVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE CONSTRUCTION PROJECT IS COMPLETE AND PAVING IS DONE. DO NOT PAVE OVER THE FILTER.
3. WHEN CONSTRUCTION IS COMPLETE, ALL DRY SEDIMENT AND DEBRIS AROUND THE FILTER SHOULD BE SWEPT AND / OR VACUUMED PRIOR TO REMOVING THE FILTER. THE FILTER CAN WITHSTAND A STREET SWEEPER WITHOUT DAMAGE.
4. WHEN THE SITE IS STABILIZED TO PREVENT EROSION AND SEDIMENTATION,CUT ALL ZIP-TIES, REMOVE FILTERS, AND RE-USE ON NEXT CONSTRUCTION SITE.
5. AFTER 3 TO 4 CONSTRUCTION SITE USAGES, SHOULD THE FILTER BEGIN TO DISINTEGRATE IT SHOULD BE DISCARDED BY PLACING IN FUTURE LAWN OR LANDSCAPE AREAS AS MULCH (FILTER IS BIODEGRADABLE).

TEMPORARY INLET PROTECTION DETAIL (B)

SCALE : 1/2" = 1'-0"



SECTION

INSTALLATION INSTRUCTIONS:

1. THE SILT FENCE SHALL BE INSTALLED BEFORE ANY MASS CLEARING OR GRADING BEGINS ON SITE. CLEAR ONLY VEGETATION REQUIRED TO INSTALL THE SILT FENCE.
2. DIG A TRENCH APPROXIMATELY 6 INCHES DEEP AND 4 INCHES WIDE ALONG THE CENTERLINE OF THE FENCE LOCATIONS AS INDICATED ON THE EROSION CONTROL PLAN.
3. DRIVE POSTS SECURELY AT LEAST 16 INCHES INTO THE GROUND ON THE DOWNSLOPE SIDE OF THE TRENCH. ADJUST SPACING SO THAT POSTS ARE PLACED AT LOW POINTS ALONG THE FENCE LINE IN ORDER TO PREVENT UNDERMINING AND UPLIFT.
4. AT JOINTS OVERLAP BY 6 INCHES MINIMUM AND FASTEN SILT FENCING.
5. PLACE THE FABRIC IN THE TRENCH SO THAT THE BOTTOM FOLDS ACROSS THE BOTTOM OF THE TRENCH. PLACE BACKFILL IN THE TRENCH OVER THE FABRIC TO THE GROUND LINE AND COMPACT WITH A POWER TAMPER. EMBED FILTER FABRIC 6 INCHES MINIMUM INTO THE GROUND.

MAINTENANCE INSTRUCTIONS:

1. INSPECT SEDIMENT FENCES PERIODICALLY AND AFTER EACH RAINFALL EVENT.
2. THE SILT FENCE SHALL BE MAINTAINED BY THE CONTRACTOR AND REPAIRED OR REPLACED IF FABRIC IS TORN, FASTENERS HAVE LOOSENED, OR POSTS HAVE UN-ANCHORED FORM THE GROUND.
3. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCING WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. AVOID UNDERMINING OR DAMAGING SILT FENCE DURING SEDIMENT REMOVAL.
4. REMOVE TEMPORARY SILT FENCING AFTER FINAL GRADING AND TOPSOILING OF SLOPES UPSTREAM OF SILT FENCE. HYDROSEED SLOPES UPSTREAM OF SILT FENCE IMMEDIATELY FOLLOWING SILT FENCE REMOVAL.
5. RE-GRADE SILT FENCE TRENCH, TOPSOIL, AND HYDROSEED IMMEDIATELY FOLLOWING SILT FENCE REMOVAL.
6. DISPOSE OF USED SILT FENCING IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS AND REGULATIONS.

SILT FENCE DETAIL (C)

SCALE : 3/4" = 1'-0"

HDYRO-SEED & HYDRO-MULCH INSTALLATION INSTRUCTIONS:

*** AREAS TO BE HYDRO-SEEDED AND HYDRO-MULCHED WITH HYDROSTRAW ARE SHOWN ON THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL CONTACT HYDROSTRAW (800) 545-1755 TO ORDER, AND FOR A LIST OF CERTIFIED HYDROMULCH APPLICATOR CONTRACTORS.

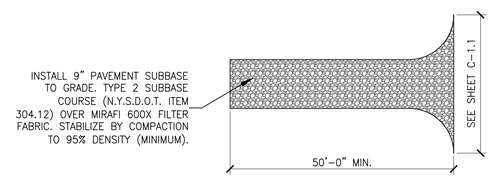
1. TILL AREAS OF INSTALLATION TO A 4 INCH MINIMUM DEPTH, THEN TOPSOIL AREAS OF INSTALLATION TO STABILIZED FINISHED GRADE. ADD LIME AND FERTILIZER TO SOIL (IF REQUIRED) AT 400 lbs PER ACRE 24 HOURS BEFORE TILLING. REMOVE ALL ROCKS, CLODS, VEGETATION, OR OTHER OBSTRUCTIONS SO THAT THE SEED WILL HAVE DIRECT CONTACT WITH THE SOIL SURFACE.
2. TOPSOIL SHALL BE ROUGHENED WITH RAKE, BACK-HOE, OR DISC PRIOR TO HYDRO-SEEDING AND HYDRO-MULCHING. NO HYDRO-SEEDING AND HYDRO-MULCHING SHALL BE APPLIED TO SMOOTH, COMPACTED, OR UN-ROUGHENED TOPSOIL SURFACES.
3. HYDRO-SEED GRASS AS PER SEED VENDOR'S INSTRUCTIONS.
4. APPLY HYDRO-MULCH TO COVER THE GRASS SEED PER HYDROMULCH SPECIFICATIONS IMMEDIATELY FOLLOWING SEEDING. APPLY AT 2,000 lbs PER ACRE MINIMUM FOR SLOPES 3:1 AND FLATTER. APPLY HYDROSTRAW GUAR PLUS AT 3,000 lbs PER ACRE MINIMUM FOR SLOPES BETWEEN 2:1 AND 3:1. APPLY HYDROSTRAW BONDED FIBER MATRIX AT 4,500 lbs PER ACRE MINIMUM FOR SLOPES BETWEEN 1:1 AND 2:1.
5. HYDROMULCH SHOULD BE APPLIED AT LEAST 8 HOURS PRIOR TO RAINSTORM EVENTS.

HYDROMULCH INSTALLATION (D)

SCALE : N.T.S.

HDYRO-SEED & HYDRO-MULCH MAINTENANCE INSTRUCTIONS:

1. THE SLOPE SHALL BE MONITORED DAILY FOR EROSION ESPECIALLY AFTER RAIN STORMS. RE-APPLICATION SHALL BE REQUIRED WHEREVER ACCEPTABLE GERMINATION IS NOT OBTAINED.
2. KEEP HYDRO-SEEDED AND HYDRO-MULCHES AREAS MOIST BY DAILY APPLICATION OF WATER FOR A MINIMUM OF TEN DAYS UNTIL THE SEEDS HAVE GERMINATED, OR AS RECOMMENDED BY THE SEED VENDOR.
3. THE ABOVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE GRASS SHOULD NOT BE MOWED UNTIL IT REACHES AT LEAST 3½ INCHES IN HEIGHT. MOW ONLY THE TOP THIRD OF EACH GRASS BLADE TO ENSURE SURVIVAL.



PLAN

TEMPORARY CONSTRUCTION ENTRANCE DETAIL (E)

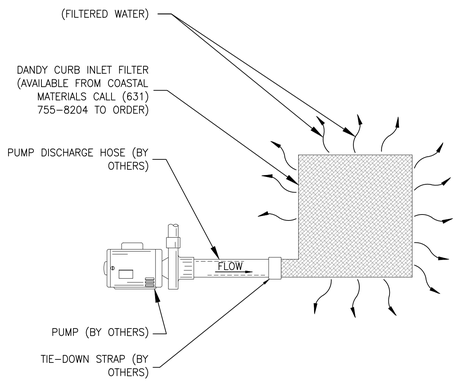
SCALE : 1/16" = 1'-0"

INSTALLATION INSTRUCTIONS:

1. CLEAR AND GRUB FUTURE DRIVEWAY AREA AND COMPACT SUBGRADE TO 92% PROCTOR DENSITY (MINIMUM) OR AS DIRECTED BY OWNER'S ON-SITE GEOTECHNICAL ENGINEER. THE SUBGRADE SHALL THEN BE ROUGH GRADED (STONE WILL BECOME FUTURE DRIVEWAY SUBBASE).
2. PRIOR TO INSTALLATION OF THE TEMPORARY CONSTRUCTION ENTRANCE STONE, ANY PROPOSED CULVERT PIPES BENEATH THE DRIVEWAYS SHOWN ON THE SITE DRAINAGE PLAN OR SITE UTILITY PLAN SHALL BE INSTALLED AS PER THE DRAINAGE DETAILS.
3. PLACE FILTER FABRIC OVER SUBGRADE IN CONFORMANCE TO MANUFACTURER'S INSTRUCTION.
4. ADD STONE IN 6 INCH MAXIMUM LIFTS. COMPACT TO 95% DENSITY (MINIMUM).

MAINTENANCE INSTRUCTIONS:

1. MAINTAIN ENTRANCE SUCH THAT SEDIMENT OR MUD DOES NOT TRACK OR FLOW ONTO ADJACENT ROAD SURFACES IN THE RIGHT-OF-WAY. ANY SEDIMENT TRACKED OR FLOWING ONTO THE ADJACENT ROAD SURFACES IN THE RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF AS DIRECTED IN THE EROSION CONTROL PLAN.
2. INSPECT ENTRANCES AFTER EACH RAINFALL. IF NECESSARY ADD ADDITIONAL AGGREGATE TO TOP SURFACE.
3. THE ABOVE MAINTENANCE PROCEDURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. WHEN TIRE WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
5. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.



INSTALLATION INSTRUCTIONS:

USE THIS DEVICE TO FILTER ANY GROUNDWATER OR RAIN WATER PUMPED FROM TRENCHES OR EXCAVATIONS TO BE DE-WATERED.

1. PLACE EMPTY DANDY BAG OVER THE GRATE AS THE GRATE STANDS ON END.
2. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN POUCH ON BOTTOM OF ****UNIT AND ATTACH PILLOW TO TETHER LOOP.
3. HOLDING THE LIFTING DEVICE (DO NOT RELY ON LIFTING DEVICE TO SUPPORT ENTIRE WEIGHT OF GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE INSTRUCTIONS:

1. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SURFACE AND VICINITY OF THE UNIT AFTER EACH RAINFALL EVENT.
2. REMOVE ACCUMULATED SEDIMENT WITHIN THE BAG AS NEEDED.
3. IF USING OPTIONAL OIL ABSORBENTS, REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

DE-WATERING DETAIL (F)

SCALE : 1/2" = 1'-0"

STATE OF NEW YORK ANDREW V. TERRACHIANO LICENSED PROFESSIONAL ENGINEER 080634

SUTTON architecture "Design2Build"

5409 Main Street (Second Floor)
Williamsville, NY 14221 (716) 932-7156 Fax 932-7873

Job Number: 18-461

Proposed Renovation For:

Fedder Lofts, LLC

57 Tonawanda Street
Buffalo, NY

No.	Description	Date	By
1	SUB. FOR CLIENT REVIEW	5/26/22	DS

Title: EROSION CONTROL DETAILS

Drawn By:	Sheet No.:
DAS	C-5.2
Date: 5-26-22	
Checked: AVT	
Scale: AS NOTED	